

Cisco Catalyst 9300 Series Switches



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Built to reimagine connection, reinforce security, and redefine experience

Cisco Catalyst™ 9300 Series Switches are Cisco's lead stackable enterprise access switching platform and, as part of the Catalyst 9000 family, are built to transform your network to handle a hybrid world where the workplace is anywhere, endpoints could be anything, and applications are hosted all over the place.

The Catalyst 9300 Series, including the Catalyst 9300X models, continues to shape the future with continued innovation that helps you reimagine connections, reinforce security and redefine the experience for your hybrid workforce, big or small. With Catalyst 9300 Series switches, you choose how you want to manage your network – on-premises, virtual, or from the cloud.

The many industry firsts of the Catalyst 9300 Series include:

- **Up to 1 TB of stacking bandwidth:** With Cisco StackWise-1T, Catalyst 9300 Series switches are the industry's highest-density stacking bandwidth solution with the most flexible uplink architecture.
- **Flexible and dense uplink offerings** with 100 Gigabit Ethernet (G), 40G, 25G, Multigigabit, 10G, and 1G modular uplinks.
- **Mixed stacking with backward compatibility:** Stack your Catalyst 9300X fiber switches with Catalyst 9300 and Catalyst 9300X Multigigabit switches, bringing stackable high-speed fiber to the access layer.
- **Highest number of Multigigabit ports:** With standalone and StackWise-1T, Catalyst 9300X models enable 48 Multigigabit ports in standalone mode and 448 Multigigabit ports with an 8-member stack.
- **Highest 90W UPOE+ density:** Enable your OT/IT needs with up to 48 ports of 90W Cisco UPOE+ in standalone mode or 384 ports of 90W UPOE+ with an 8-member stack.
- **StackPower with backward compatibility:** Enable power resiliency with higher power budgets in a mixed Catalyst 9300 and Catalyst 9300X stack.
- **100G IPsec in hardware:** Built on the Cisco® Unified Access Data Plane (UADP) 2.0sec application-specific integrated circuit (ASIC), the Catalyst 9300X models come with 100G line-rate IPsec to enable various options for new edge connectivity.
- **Secure tunnel connectivity:** With the new edge, the Catalyst 9300X enables secure connections to secure internet gateways, cloud service providers, and site-to-site connectivity using IPsec tunnels with 256-bit Advanced Encryption Standard encryption (AES-256) and speeds up to 100G.
- **Enhanced application hosting:** With twice the capacity and additional RAM, Intel® QuickAssist Technology (QAT), and 2x 10G AppGig ports, the Catalyst 9300X models can host multiple Cisco Signed performance-savvy applications.
- **ThousandEyes enabled:** Enable end-to-end visualization of the path from campus/branch to clouds/data center with Cisco ThousandEyes® Network and Application Synthetics (included with Cisco DNA Advantage licenses).
- **Cisco ASAc firewall enabled:** Using application hosting, Cisco Adaptive Security Virtual Appliance (ASAc) and stateful inspection of traffic can be seamlessly added to existing networks without any additional hardware.

- **Cloud management:** Migrate Catalyst 9300 Series switches to the Cisco Meraki® dashboard to unlock centralized management and monitoring of devices while retaining advanced features like a cloud-hosted command-line interface terminal. [Learn more](#).
- **Investment protection:** Catalyst 9300X redundant fans and power supplies, data stack, and StackPower cables are backward compatible with the Catalyst 9300 Series.

The Foundation of Software-Defined Access

Advanced persistent security threats. The exponential growth of Internet of Things (IoT) devices. Mobility everywhere. Cloud adoption. All of these require a network fabric that integrates advanced hardware and software innovations to automate, secure, and simplify customer networks. The goal of this network fabric is to enable customer revenue growth by accelerating the rollout of business services.

The Cisco Networking Cloud with Software-Defined Access (SD-Access) is the network fabric that powers business. It is an open and extensible, software-driven architecture that accelerates and simplifies your enterprise network operations. The programmable architecture frees your IT staff from time-consuming, repetitive network configuration tasks so they can focus instead on innovation that positively transforms your business. SD-Access enables policy-based automation from edge to cloud with foundational capabilities that include:

- Simplified device deployment
- Unified management of wired and wireless networks
- Network virtualization and segmentation
- Group-based policies
- Context-based analytics

Cloud Ethernet Virtual Private Network (EVPN) fabric capabilities are supported for Cisco Catalyst 9300/X models being managed from the Meraki dashboard. Learn more about cloud management and cloud fabric [here](#).

Cisco Catalyst, Cisco DNA, and Meraki software

Cisco Catalyst, Cisco DNA, and Meraki software subscriptions offer a valuable and flexible way to buy software for the access layer, WAN, and data center domains. At each stage in the product lifecycle, Cisco Catalyst, Cisco DNA, and Meraki software helps make buying, managing, and upgrading your network and infrastructure software easier. Cisco software provides:

- Flexible licensing models to smoothly distribute customers' software spending over time.
- Investment protection for software purchases through software services-enabled license portability.
- Access to updates, upgrades, and new technology from Cisco through Cisco Software Support Service (SWSS).
- Lower cost of entry with the new Cisco Catalyst Software Subscription for Switching support model.
- Choose what management model works best for you – on-premises, virtual, or in the cloud.
- Access to end-to-end network visibility with Cisco Spaces, service assurance through Cisco ThousandEyes Network and Application Synthetics, and Cisco ASAc firewall (with Cisco Catalyst and Cisco DNA Advantage licenses).

Cisco Catalyst 9300 Series Switches let you manage your entire switching structure as a single, converged component. With one management system, whether on-premises or in the cloud, and one policy for wired and wireless networks, they offer an efficient way to provide more secure access.

Product overview

Product highlights

- Highest wireless scale for Wi-Fi 6 and 802.11ac Wave 2 access points supported on a single switch with select models.
- Catalyst 9300 and Catalyst 9300L/LM models are based on the Cisco UADP 2.0 ASIC with programmable pipeline and micro-engine capabilities, along with template-based, configurable allocation of Layer 2 and Layer 3 forwarding, access control lists (ACLs), and quality-of-service (QoS) entries.
- Catalyst 9300X models are based on UADP 2.0sec ASIC, which adds line-rate support for crypto, including 100G hardware-based IPsec.
- x86 CPU complex with 8 GB memory, 16 GB of flash, and an external USB 3.0 SSD pluggable storage slot (delivering up to 240 GB of storage with an optional SSD drive) to host containers. Catalyst 9300X models support 16 GB of memory.
- USB 2.0 slot to load system images and set configurations.
- Up to 1 Tbps of local stackable switching bandwidth with the Catalyst 9300X models.
- Deeper buffer and higher scale model options for rich multimedia content delivery applications.
- Flexible and dense uplink offerings with 100G, 40G, 25G, Multigigabit, 10G, and 1G as fixed or modular uplinks.
- Easy transition from 40G to 100G and 10G to 25G with dual-rate optics.
- Flexible downlink options with 25G, 10G and 1G copper and fiber as well as the densest Multigigabit links.
- With a mix of copper (1G up to 10G) and fiber (1G up to 25G) supported in a single stack, multiple flexible deployment scenarios are enabled, including 2-tier, 3-tier, and hybrid architectures.
- Leading Power over Ethernet (PoE) capabilities with up to 384 ports of PoE per stack, PoE+, and 288 ports of high-density IEEE 802.3bt-90W UPOE+ and 60W Cisco UPOE®.
- Intelligent power management with Cisco StackPower technology, providing power stacking among members for power redundancy. StackPower pools the power supplies across the stack to be used for redundancy and supplemental power purposes.
- Line-rate, hardware-based Flexible NetFlow (FNF), delivering flow collection of up to 128,000 flows with select models.
- IPv6 support in hardware, providing wire-rate forwarding for IPv6 networks.
- Dual-stack support for IPv4/IPv6 and dynamic hardware forwarding table allocations, for ease of IPv4-to-IPv6 migration.

- Support for both static and dynamic Network Address Translation (NAT) and Port Address Translation (PAT).
- IEEE 802.1ba Audio Video Bridging (AVB) built in to provide a better audio and video experience through improved time synchronization and QoS.
- Precision Time Protocol (PTP; IEEE 1588v2) provides accurate clock synchronization with sub-microsecond accuracy, making it suitable for distribution and synchronization of time and frequency over the network.
- Cisco IOS® XE, a modern operating system for the enterprise with support for model-driven programmability, including NETCONF, RESTCONF, YANG, on-box Python scripting, streaming telemetry, container-based application hosting, and patching for critical bug fixes. The OS also has built-in defenses to protect against runtime attacks.
- End-to-end visualization of the path from campus/branch to clouds/data center with Cisco ThousandEyes Network and Application Synthetics (included with a Cisco Catalyst and Cisco DNA Advantage license).
- Fully managed Meraki cloud customers can take advantage of the power of Catalyst 9300 switching in their Meraki cloud through the cloud-management service.
- **SD-Access:** Cisco Catalyst 9300 Series Switches form the foundational building block for SD-Access, Cisco's lead enterprise architecture:
 - Policy-based automation from edge to cloud.
 - Simplified segmentation and micro-segmentation, with predictable performance and scalability.
 - Automation through Cisco Catalyst Center and Meraki dashboard.
 - Policy handled through the Cisco Identity Services Engine (ISE).
 - Network assurance provided through Cisco Catalyst Center and Meraki dashboard.
 - Faster launch of new business services and significantly improved issue resolution time.
- Plug and Play (PnP) enabled: A simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or updates to an existing network.
- Advanced security
 - **Encrypted Traffic Analytics (ETA):** Uses the power of machine learning to identify and take action against threats or anomalies in your network, including malware detection in encrypted traffic (without decryption) and distributed anomaly detection.
 - Support for AES-256 with the powerful MACsec 256-bit encryption algorithm available on all models.
 - **Trustworthy solutions:** Hardware-anchored Secure Boot and Secure Unique Device Identification (SUDI) support for PnP, to verify the identity of the hardware and software.

Platform details

Switch models and configurations

Table 1. Product family configurations

| Model | Modular uplinks and speeds | Stacking bandwidth support | Multigigabit density | Cisco StackPower | Hardware-based IPsec | App hosting capacity |
|------------------------|---------------------------------------|--|----------------------|-------------------------|----------------------|---|
| Catalyst 9300X | 10G, 25G, 40G, Multigigabit, and 100G | Stackwise-1T (480G when stacking with a Catalyst 9300 model) | 48x 10G | ✓ (larger power budget) | Up to 100G IPsec* | ✓ (2x hosting resources compared to Catalyst 9300 models) |
| Catalyst 9300 | 10G, 25G, 40G and Multigigabit | Stackwise-480 | 48x 5G and 24x 10G | ✓ | ✗ | ✓ |
| Catalyst 9300L | ✗ | Stackwise-320 | 12x 10G | ✗ | ✗ | ✓ |
| Catalyst 9300LM | ✗ | Stackwise-320 | 8x 10G | ✗ | ✗ | ✓ |

* Need to order HSEC key for IPsec feature.

The Cisco Catalyst 9300 Series consists of 19 modular uplink switch models and 14 fixed uplink switch models.



Figure 1. Cisco Catalyst 9300 Series Switches

Table 2 lists port scale and power details for the Cisco Catalyst 9300 Series models.

Table 2. Cisco Catalyst 9300 Series switch configurations

| Model | Total 10/100/1000, Multigigabit copper or SFP fiber | Uplink configuration | Default AC power supply |
|------------------------------|---|----------------------|-------------------------|
| Modular uplink models | | | |
| C9300X-48HX | 48 ports Cisco UPOE+, 48x 10G Multigigabit (10G/5G/2.5G/1G/100M) with 90W UPOE+ | Modular uplinks | 1100W AC |
| C9300X-48TX | 48 ports data, 48x 10G Multigigabit (10G/5G/2.5G/1G/100M) | Modular uplinks | 715W AC |

| Model | Total 10/100/1000, Multigigabit copper or SFP fiber | Uplink configuration | Default AC power supply |
|---------------------|---|----------------------|-------------------------|
| C9300X-48HXN | 48 ports Cisco UPOE+, 8x 10G Multigigabit (10G/5G/2.5G/1G/100M) + 40x 5G Multigigabit (5G/2.5G/1G/100M) | Modular uplinks | 1100W AC |
| C9300X-24HX | 24 ports Cisco UPOE+, 24x 10G Multigigabit (10G/5G/2.5G/1G/100M) | Modular uplinks | 1100W AC |
| C9300X-12Y | 12 ports 25G/10G/1G SFP28 | Modular uplinks | 715W AC |
| C9300X-24Y | 24 ports 25G/10G/1G SFP28 | Modular uplinks | 715W AC |
| C9300-24T | 24 ports data | Modular uplinks | 350W AC |
| C9300-48T | 48 ports data | Modular uplinks | 350W AC |
| C9300-24P | 24 ports PoE+ | Modular uplinks | 715W AC |
| C9300-48P2 | 48 ports PoE+ ENERGY STAR certified | Modular uplinks | 715W AC |
| C9300-24U | 24 ports Cisco UPOE | Modular uplinks | 1100W AC |
| C9300-48U | 48 ports Cisco UPOE | Modular uplinks | 1100W AC |
| C9300-24UX | 24 ports Multigigabit Cisco UPOE (10G/5G/2.5G/1G/100M) | Modular uplinks | 1100W AC |
| C9300-48UXM2 | 48 ports Cisco UPOE, 36 ports 100M/1G/2.5G + 12 ports Multigigabit (10G/5G/2.5G/1G/100M) ENERGY STAR® certified | Modular uplinks | 1100W AC |
| C9300-48UN | 48 port 5Gbps Multigigabit UPOE ports (5G/2.5G/1G/100M) | Modular uplinks | 1100W AC |
| C9300-24UB | 24 port Cisco UPOE | Modular uplinks | 1100W AC |
| C9300-24UXB | 24 ports Multigigabit Cisco UPOE (10G/5G/2.5G/1G/100M) | Modular uplinks | 1100W AC |
| C9300-48UB | 48 ports Cisco UPOE | Modular uplinks | 1100W AC |
| C9300-24H | 24 ports Cisco UPOE+ | Modular uplinks | 1100W AC |
| C9300-48H | 48 ports Cisco UPOE+ | Modular uplinks | 1100W AC |
| C9300-24S | 24 ports 1G SFP | Modular uplinks | 715W AC |
| C9300-48S | 48 ports 1G SFP | Modular uplinks | 715W AC |

| Model | Total 10/100/1000, Multigigabit copper or SFP fiber | Uplink configuration | Default AC power supply |
|----------------------------|--|-------------------------|-------------------------|
| Fixed uplink models | | | |
| C9300L-24T-4G | 24 ports data | 4x 1G fixed uplinks | 350W AC |
| C9300L-24T-4X | 24 ports data | 4x 10G/1G fixed uplinks | 350W AC |
| C9300L-48T-4G | 48 ports data | 4x 1G fixed uplinks | 350W AC |
| C9300L-48T-4X | 48 ports data | 4x 10G/1G fixed uplinks | 350W AC |
| C9300L-24P-4G | 24 ports PoE+ | 4x 1G fixed uplinks | 715W AC |
| C9300L-24P-4X | 24 ports PoE+ | 4x 10G/1G fixed uplinks | 715W AC |
| C9300L-48P-4G | 48 ports PoE+ | 4x 1G fixed uplinks | 715W AC |
| C9300L-48P-4X | 48 ports PoE+ | 4x 10G/1G fixed uplinks | 715W AC |
| C9300L-48PF-4G | 48 ports PoE+ | 4x 1G fixed uplinks | 1100W AC |
| C9300L-48PF-4X | 48 ports PoE+ | 4x 10G/1G fixed uplinks | 1100W AC |
| C9300L-24UXG-4X | 24 ports Cisco UPOE, 8 ports Multigigabit (10G/5G/2.5G/1G/100M) + 16 ports 1G (1G/100M/10M) | 4x 10G/1G fixed uplinks | 1100W AC |
| C9300L-24UXG-2Q | 24 ports Cisco UPOE, 8 ports Multigigabit (10G/5G/2.5G/1G/100M) + 16 ports 1G (1G/100M/10M) | 2x 40G fixed uplinks | 1100W AC |
| C9300L-48UXG-4X | 48 ports Cisco UPOE, 12 ports Multigigabit (10G/5G/2.5G/1G/100M) + 36 ports 1G (1G/100M/10) | 4x 10G/1G fixed uplinks | 1100W AC |
| C9300L-48UXG-2Q | 48 ports Cisco UPOE, 12 ports Multigigabit (10G/5G/2.5G/1G/100M) + 36 ports 1G (1G/100M/10M) | 2x 40G fixed uplinks | 1100W AC |

| Model | Total 10/100/1000, Multigigabit copper or SFP fiber | Uplink configuration | Default AC power supply |
|-----------------|--|----------------------|-------------------------|
| C9300LM-48UX-4Y | 48 port Cisco UPOE, 8 port 10G Multigigabit (10G/5G/2.5G/1G/100M) + 40 port 1G (1G/100M/10M) | 4x 25G fixed uplinks | 1000W AC ¹ |
| C9300LM-48U-4Y | 48 ports 1G (1G/100M/10M) with Cisco UPOE | 4x 25G fixed uplinks | 1000W AC ¹ |
| C9300LM-24U-4Y | 24 ports 1G (1G/100M/10M) with Cisco UPOE | 4x 25G fixed uplinks | 600W AC ¹ |
| C9300LM-48T-4Y | 48 ports 1G (1G/100M/10M) Data | 4x 25G fixed uplinks | 600W AC ¹ |

¹C9300LM models use different power supplies compared to the Catalyst 9300, 9300X, and 9300L models.

²ENERGY STAR certified model.

Network modules

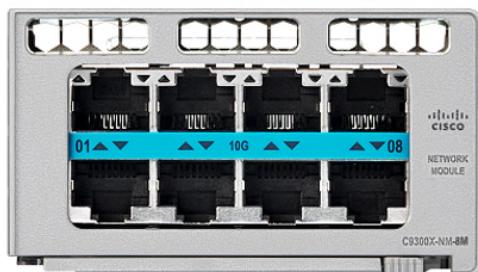
Cisco Catalyst 9300 Series Switches (C9300X and C9300 SKUs) support optional network modules for uplink ports (Figures 2 and 3). These field-replaceable network modules with 25G and 40G speeds in the Cisco Catalyst 9300 Series enable greater architectural flexibility and infrastructure investment protection by allowing a nondisruptive migration from 10G to 25G and beyond. The default switch configuration does not include the network module. When you purchase the switch, you can choose from the network modules described in Table 3.



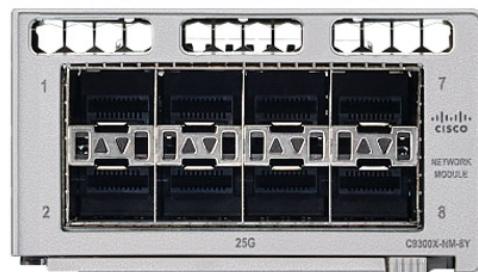
C9300X-NM-4C



C9300X-NM-2C



C9300X-NM-8M



C9300X-NM-8Y

Figure 2. Cisco Catalyst 9300X network modules



Figure 3. Cisco Catalyst 9300 Series network modules

Table 3. Network module numbers and descriptions

| Network module | Description |
|----------------|--|
| C9300X-NM-8M** | Catalyst 9300X 8x 10G/1G Multigigabit Network Module |
| C9300X-NM-8Y** | Catalyst 9300X 8x 25G/10G/1G Network Module |
| C9300X-NM-2C** | Catalyst 9300X 2x 100G/40G Network Module |
| C9300X-NM-4C* | Catalyst 9300X 4x 100G/40G Network Module |
| C9300-NM-4G | Catalyst 9300 Series 4x 1G Network Module |
| C9300-NM-4M | Catalyst 9300 Series 4x Multigigabit Network Module |
| C9300-NM-8X | Catalyst 9300 Series 8x 10G/1G Network Module |
| C9300-NM-2Q | Catalyst 9300 Series 2x 40G Network Module |
| C9300-NM-2Y | Catalyst 9300 Series 2x 25G/10G/1G Network Module |

* C9300X-NM-4C is compatible only with the C9300X-48HX, C9300X-48TX, and C9300X-24Y models.

** The number of network module ports is limited when a C9300X-NM-xx is used with the C9300X-48HXN models.

Please note: Catalyst 3850 and Catalyst 9300 network modules are supported on the Catalyst 9300 models. Catalyst 9300X network modules are supported only on the Catalyst 9300X models.

For additional details, please read the Cisco Catalyst 9000 Switching Platform FAQ: <https://www.cisco.com/c/dam/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-09-cat-9k-faq-cte-en.pdf>.

Power supplies

Cisco Catalyst 9300 Series Switches support dual redundant power supplies. The switches ship with one power supply by default, and the second power supply can be purchased when the switch is ordered or at a later time. If only one power supply is installed, it should always be in power supply bay #1. The switches also ship with three field-replaceable fans. Power supplies are common across the Catalyst 9300 Series.



Figure 4. Cisco Catalyst 9300 Series dual redundant power supplies

Table 4 lists the different power supplies available in these switches and available PoE power.

Table 4. Power supply models

| Model | Primary power supply | Default or upgrade | Available PoE | With 350W secondary PS | With 715W secondary PS | With 1100W secondary PS | With 1900W secondary PS |
|---------------------|----------------------|--------------------|---------------|------------------------|------------------------|-------------------------|-------------------------|
| C9300X-48HX | PWR-C1-1900WAC-P | Upgrade | 1390W | 1740W | 2105W | 2490W | 3290W |
| | PWR-C1-1100WAC-P | Default | 590W | 940W | 1305W | 1690W | 2490W |
| C9300X-48TX | PWR-C1-715WAC-P | Default | No PoE | No PoE | No PoE | No PoE | No PoE |
| C9300X-48HXN | PWR-C1-1900WAC-P | Upgrade | 1490W | 1840W | 2205W | 2590W | 3390W |
| | PWR-C1-1100WAC-P | Default | 690W | 1040W | 1405W | 1790W | 2590W |
| C9300X-24HX | PWR-C1-1900WAC-P | Upgrade | 1535W | 1885W | 2160W* | 2160W* | 2160W* |
| | PWR-C1-1100WAC-P | Default | 735W | 1085W | 1450W | 1835W | 2160W* |
| C9300X-24Y | PWR-C1-715WAC-P | Default | No POE | No PoE | No PoE | No PoE | No PoE |
| C9300X-12Y | PWR-C1-715WAC-P | Default | No PoE | No PoE | No PoE | No PoE | No PoE |
| C9300-48H | PWR-C1-1900WAC-P | Upgrade | 1622W | 1972W | 2337W | 2722W | 2880W |
| | PWR-C1-1100WAC-P | Default | 822W | 1172W | 1537W | 1922W | 2722W |
| C9300-24H | PWR-C1-1900WAC-P | Upgrade | 1630W | 1980W | 2160W* | 2160W* | 2160W* |
| | PWR-C1-1100WAC-P | Default | 830W | 1180W | 1545W | 1930W | 2160W |
| C9300-48UN | PWR-C1-1900WAC-P | Upgrade | 1445W | 1795W | 2160W | 2545W | 2880W* |
| | PWR-C1-1100WAC-P | Default | 645W | 995W | 1360W | 1745W | 2545W |

| Model | Primary power supply | Default or upgrade | Available PoE | With 350W secondary PS | With 715W secondary PS | With 1100W secondary PS | With 1900W secondary PS |
|--------------------|----------------------|--------------------|---------------|------------------------|------------------------|-------------------------|-------------------------|
| C9300-48UXM | PWR-C1-1900WAC-P | Upgrade | 1290W | 1640W | 2005W | 2880W* | 2880W* |
| | PWR-C1-1100WAC-P | Default | 490W | 840W | 1205W | 1590W | 2390W |
| C9300-24UX | PWR-C1-1900WAC-P | Upgrade | 1360W | 1440W* | 1440W* | 1440W* | 1440W* |
| | PWR-C1-1100WAC-P | Default | 560W | 910W | 1275W | 1440W* | 1440W* |
| C9300-48U | PWR-C1-1900WAC-P | Upgrade | 1622W | 1800W** | 1800W** | 1800W** | 1800W** |
| | PWR-C1-1100WAC-P | Default | 822W | 1172W | 1537W | 1800W** | 1800W** |
| C9300-24U | PWR-C1-1900WAC-P | Upgrade | 1440W* | 1440W* | 1440W* | 1440W* | 1440W* |
| | PWR-C1-1100WAC-P | Default | 830W | 1180W | 1152W | 1440W* | 1440W* |
| C9300-48P | PWR-C1-1100WAC-P | Upgrade | 822W | 1172W | 1440W* | 1440W* | 1440W* |
| | PWR-C1-715WAC-P | Default | 437W | 787W | 1152W | 1440W* | 1440W* |
| C9300-24P | PWR-C1-1100WAC-P | Upgrade | 720W* | 720W* | 720W* | 720W* | 720W* |
| | PWR-C1-715WAC-P | Default | 445W | 720W* | 720W* | 720W* | 720W* |
| C9300-48T | PWR-C1-350WAC-P*** | Default | No PoE | No PoE | No PoE | No PoE | No PoE |
| C9300-24T | PWR-C1-350WAC-P*** | Default | No PoE | No PoE | No PoE | No PoE | No PoE |
| C9300-48S | PWR-C1-715WAC-P | Default | No PoE | No PoE | No PoE | No PoE | No PoE |
| C9300-24S | PWR-C1-715WAC-P | Default | No POE | No POE | No PoE | No PoE | No PoE |
| C9300-48UB | PWR-C1-1100WAC-P | Default | 822W | 1172W | 1537W | 1800W** | 1800W** |
| C9300-24UB | PWR-C1-1100WAC-P | Default | 830W | 1180W | 1440W* | 1440W* | 1440W* |
| C9300-24UXB | PWR-C1-1100WAC-P | Default | 560W | 910W | 1275W | 1440W* | 1440W* |

| Model | Primary power supply | Default or upgrade | Available PoE power | With 350W secondary PS | With 715W secondary PS | With 1100W secondary PS |
|----------------------|----------------------|--------------------|---------------------|------------------------|------------------------|-------------------------|
| C9300L-24T-4G | PWR-C1-350WAC-P | Default | No PoE | No PoE | No PoE | No PoE |
| C9300L-24T-4X | PWR-C1-350WAC-P | Default | No PoE | No PoE | No PoE | No PoE |
| C9300L-48T-4G | PWR-C1-350WAC-P | Default | No PoE | No PoE | No PoE | No PoE |

| Model | Primary power supply | Default or upgrade | Available PoE power | With 350W secondary PS | With 715W secondary PS | With 1100W secondary PS |
|------------------------|----------------------|--------------------|---------------------|------------------------|------------------------|-------------------------|
| C9300L-48T-4X | PWR-C1-350WAC-P | Default | No PoE | No PoE | No PoE | No PoE |
| C9300L-24P-4G | PWR-C1-715WAC-P | Default | 505W | 720W* | 720W* | 720W* |
| C9300L-24P-4X | PWR-C1-715WAC-P | Default | 505W | 720W* | 720W* | 720W* |
| C9300L-48P-4G | PWR-C1-715WAC-P | Default | 505W | 855W | 1220W | 1440W* |
| C9300L-48P-4X | PWR-C1-715WAC-P | Default | 505W | 855W | 1220W | 1440W* |
| C9300L-48PF-4G | PWR-C1-1100WAC-P | Default | 890W | 1240W | 1440W | 1440W* |
| C9300L-48PF-4X | PWR-C1-1100WAC-P | Default | 890W | 1240W | 1440W | 1440W* |
| C9300L-24UXG-4X | PWR-C1-1100WAC-P | Default | 880W | 1230W | 1440W | 1440W* |
| C9300L-24UXG-2Q | PWR-C1-1100WAC-P | Default | 722W | 1072W | 1440W | 1440W* |
| C9300L-48UXG-4X | PWR-C1-1100WAC-P | Default | 675W | 1025W | 1390W | 1775W |
| C9300L-48UXG-2Q | PWR-C1-1100WAC-P | Default | 675W | 1025W | 1390W | 1775W |

* Limited by port number and port rating (e.g., 24 PoE+ 30W ports = 720W).

** Limited by design.

*** Upgrade options for 715W and 1100W PSUs are available.

| Model | Primary power supply | Default or upgrade | Available PoE power | With 600W AC secondary PS | With 715W DC secondary PS | With 1000W AC secondary PS |
|------------------------|----------------------|--------------------|---------------------|---------------------------|---------------------------|----------------------------|
| C9300LM-48UX-4Y | PWR-C6-1KWAC | Default | 790W | 1390W | 1505W | 1790W |
| C9300LM-48U-4Y | PWR-C6-1KWAC | Default | 790W | 1390W | 1505W | 1790W* |
| C9300LM-24U-4Y | PWR-C6-1KWAC | Upgrade | 820W | 1420W | 1440W* | 1440W* |
| | PWR-C6-600WAC | Default | 420W | 1020W | 1135W | 1420W |
| C9300LM-48T-4Y | PWR-C6-600WAC | Default | No PoE | No PoE | No PoE | No PoE |

* Limited by port number and port rating (e.g. 24x 60W UPOE ports = 1440W).

Stacking

Cisco Catalyst 9300 Series Switch models are designed for stacking as a single virtual switch, enabling customers to have a single management plane and control plane for up to 448 access ports.



Figure 5. Cisco Catalyst 9300 Series modular uplink models stack (C9300/C9300X SKUs) and fixed uplink models stack (C9300L SKUs).

Table 5 lists the supported stacking options.

Table 5. Supported stacking options

| Model | Stacking support | Stacking bandwidth support | Optional stacking hardware | Number of members | Supported stack members |
|---------------------|------------------|----------------------------|---------------------------------------|-------------------|--|
| C9300X SKUs | StackWise-1T | 1 Tbps | StackWise cable | 8 | Stacks with other Catalyst 9300X models at StackWise-1T speeds with same license level Stacks with C9300 SKUs at StackWise-480 speeds with same license level |
| C9300 SKUs | StackWise-480 | 480 Gbps | StackWise cable | 8 | Other C9300 SKUs with same license level C9300 higher-scale SKUs only stack with other like higher-scale models |
| C9300L SKUs | StackWise-320 | 320 Gbps | C9300L-STACK-KIT Or C9300L-STACK-KIT2 | 8 | Stacks with other Catalyst 9300L and 9300LM models with same license level |
| C9300LM SKUs | StackWise-320 | 320 Gbps | C9300L-STACK-KIT2 | 8 | Stacks with other Catalyst 9300L and 9300LM models with same license level |

Mixed stacking between Catalyst 9300X and Catalyst 9300 models are supported at StackWise-480 speeds.

Mixed stacking between Catalyst 9300 and Catalyst 9300X and Catalyst 9300 higher-scale models (C9300-24UB, C9300-24UXB, C9300-48UB) is **not supported**. You cannot stack fixed uplink models (C9300L SKUs) with modular uplink models (C9300 SKUs) or other Catalyst switches, such as the Cisco Catalyst 3850 and 3650 Series. Any combination of Catalyst 9300 Series models can form a stack. Separately, any combination of Catalyst 9300L models can form a stack.

Catalyst 9300 Series higher-scale SKUs (C9300-24UB, C9300-24UXB, C9300-48UB) need to be stacked with other higher-scale models.

StackWise cables that are available to configure stacking with Catalyst 9300 Series modular uplink models (C9300X and C9300 SKUs) come in lengths of 0.5m, 1m, and 3m.

The optional StackWise-320 kit for Catalyst 9300 Series fixed uplink models (C9300L and 9300LM SKUs) consists of two stack adapters and a stacking cable. The default stacking cable is 0.5m, but options of 1m and 3m are also available. Table 6 lists the stacking accessories.

Table 6. Stacking accessories

| Model | Description |
|--------------------------|---|
| STACK-T1-50CM | Data stack 50 cm (cable option with C9300 and C9300X SKUs) |
| STACK-T1-1M | Data stack 1m (cable option with C9300 and C9300X SKUs) |
| STACK-T1-3M | Data stack 3m (cable option with C9300 and C9300X SKUs) |
| C9300L-STACK-KIT | Stack kit for C9300L SKUs only: Two data stack adapters and one data stack cable |
| STACK-T3-50CM | Data stack 50cm cable (default cable with C9300L Stack Kit) |
| STACK-T3-1M | Data stack 1m cable (cable option with C9300L Stack Kit) |
| STACK T3-3M | Data stack 3m cable (cable option with C9300L Stack Kit) |
| C9300L-STACK-KIT2 | Stack kit for C9300LM and C9300L SKUs: Two data stack adapters and one data stack cable |
| STACK-T3A-50CM | Data stack 50cm cable (default cable with C9300L Stack Kit2) |
| STACK-T3A-1M | Data stack 1m cable (cable option with C9300L Stack Kit2) |
| STACK T3A-3M | Data stack 3m cable (cable option with C9300L Stack Kit2) |



Figure 6. Cisco Catalyst 9300 Series fixed uplink models with optional stack kit

Fan

Cisco Catalyst 9300 Series Switches also come with three field-replaceable fans and support (N+1) redundancy. Table 7 lists the fan module part number.

Table 7. Fan module

| Model | Description |
|---------|-------------|
| FAN-T2= | Fan module |

Performance and scalability

Performance and scalability metrics for the Cisco Catalyst 9300 Series are provided in Table 8.

Performance specifications

Table 8. Performance specifications

| Description | Catalyst 9300X modular uplink models | Catalyst 9300 modular uplink models | Catalyst 9300 higher-scale models | Catalyst 9300L/LM fixed uplink models |
|--|--|--|---|--|
| Total number of MAC addresses | 32,000 | 32,000 | 64,000 | 32,000 |
| Total number of IPv4 routes (ARP plus learned routes) | 39,000 (24,000 direct routes and 15,000 indirect routes) | 32,000 (24,000 direct routes and 8000 indirect routes) | 112,000 (48,000 direct routes and 64,000 indirect routes) | 32,000 (24,000 direct routes and 8000 indirect routes) |
| IPv6 routing entries | 19,500 | 16,000 | 56,000 | 16,000 |
| Multicast routing scale | 8,000 | 8,000 | 16,000 | 8,000 |
| QoS scale entries | 4,000 | 5,120 | 18,000 | 5,120 |
| ACL scale entries | 8,000 | 5,120 | 18,000 | 5,120 |

| Description | Catalyst 9300X modular uplink models | Catalyst 9300 modular uplink models | Catalyst 9300 higher-scale models | Catalyst 9300L/LM fixed uplink models |
|--|---|--|--|--|
| Packet buffer per SKU | 16-MB buffer for 48-port 5G Multigigabit, 24-port 10G Multigigabit and 12-port fiber 32-MB buffer for 48-port 10G Multigigabit and 24-port fiber | 16-MB buffer for 24- or 48-port Gigabit Ethernet models 32-MB buffer for 24- and 48-port Multigigabit | 32-MB buffer for 24-and 48-port Gigabit Ethernet models 64-MB buffer for 24-port Multigigabit model (24UXB) | 16-MB buffer for 24- and 48-port Gigabit Ethernet models |
| FNF entries | 64,000 flows on 48-port 5G Multigigabit and 24-port 10G Multigigabit and 12-port fiber 128,000 flows on 48-port 10G Multigigabit and 24-port fiber | 64,000 flows on 24-and 48-port Gigabit Ethernet models 128,000 flows on 24-port Multigigabit | 128,000 flows on 24-and 48-port Gigabit Ethernet models 256,000 flows on 24-port Multigigabit | 64,000 flows on 24-and 48-port Gigabit Ethernet models |
| DRAM | 16 GB | 8 GB | 8 GB | 8 GB |
| Flash | 16 GB | 16 GB | 16 GB | 16 GB |
| VLAN IDs | 4094 | 4094 | 4094 | 4094 |
| PVST Instances | 300 | 300 | 300 | 300 |
| STP virtual ports (port* VLANs) for PVST | 13,000 | 13,000 | 13,000 | 13,000 |
| STP virtual ports (port* VLANs) for MST | 13,000 | 13,000 | 13,000 | 13,000 |
| Total switched virtual interfaces (SVIs) | 1000 | 1000 | 1000 | 1000 |
| Jumbo frames | 9198 bytes | 9198 bytes | 9198 bytes | 9198 bytes |
| Total routed ports per Catalyst 9300 Series stack | 448 | 448 | 448 | 416 |

Bandwidth specifications

Table 9. Bandwidth specifications

| SKU | Switching capacity | Switching capacity with stacking | Forwarding rate | Forwarding rate with stacking |
|---------------------|--------------------|----------------------------------|-----------------|-------------------------------|
| C9300X-48TX | 1,760 Gbps | 2,760 Gbps | 1309 Mpps | 2232 Mpps |
| C9300X-48HX | 1,760 Gbps | 2,760 Gbps | 1309 Mpps | 2232 Mpps |
| C9300X-48HXN | 960 Gbps | 1960 Gbps | 714.24 Mpps | 1458.24 Mpps |
| C9300X-24HX | 800 Gbps | 1,880 Gbps | 654.72 Mpps | 1398.72 Mpps |
| C9300-24T | 208 Gbps | 688 Gbps | 154.76 Mpps | 511.90 Mpps |
| C9300-48T | 256 Gbps | 736 Gbps | 190.47 Mpps | 547.62 Mpps |
| C9300-24P | 208 Gbps | 688 Gbps | 154.76 Mpps | 511.90 Mpps |
| C9300-48P | 256 Gbps | 736 Gbps | 190.47 Mpps | 547.62 Mpps |
| C9300-24U | 208 Gbps | 688 Gbps | 154.76 Mpps | 511.90 Mpps |
| C9300-48U | 256 Gbps | 736 Gbps | 190.48 Mpps | 547.62 Mpps |
| C9300-24UX | 640 Gbps | 1120 Gbps | 476.19 Mpps | 833.33 Mpps |
| C9300-48UXM | 580 Gbps | 1060 Gbps | 431.54 Mpps | 788.69 Mpps |
| C9300-48UN | 640 Gbps | 1120 Gbps | 476.19 Mpps | 833.33 Mpps |
| C9300-24UB | 208 Gbps | 688 Gbps | 154.76 Mpps | 511.90 Mpps |
| C9300-48UB | 256 Gbps | 736 Gbps | 190.48 Mpps | 547.62 Mpps |
| C9300-24UXB | 640 Gbps | 1120 Gbps | 476.19 Mpps | 833.33 Mpps |
| C9300-24H | 208 Gbps | 688 Gbps | 154.76 Mpps | 511.90 Mpps |
| C9300-48H | 256 Gbps | 736 Gbps | 190.48 Mpps | 547.62 Mpps |
| C9300-24S | 208 Gbps | 688 Gbps | 154.76 Mpps | 511.90 Mpps |
| C9300-48S | 256 Gbps | 736 Gbps | 190.47 Mpps | 547.62 Mpps |
| C9300X-12Y | 1,000 Gbps | 2,000 Gbps | 744.04 Mpps | 1488 Mpps |
| C9300X-24Y | 2,000 Gbps | 3,000 Gbps | 1488 Mpps | 2232 Mpps |

| SKU | Switching capacity | Switching capacity with stacking | Forwarding rate | Forwarding rate with stacking |
|------------------------|--------------------|----------------------------------|-----------------|-------------------------------|
| C9300LM-48UX-4Y | 440 Gbps | 760 Gbps | 327.36 Mpps | 565.44 Mpps |
| C9300LM-48U-4Y | 296 Gbps | 616 Gbps | 220.22 Mpps | 458.30 Mpps |
| C9300LM-24U-4Y | 248 Gbps | 568 Gbps | 184.51 Mpps | 422.59 Mpps |
| C9300LM-48T-4Y | 296 Gbps | 616 Gbps | 220.22 Mpps | 458.30 Mpps |
| C9300L-24T-4G | 56 Gbps | 376 Gbps | 41.66 Mpps | 279.76 Mpps |
| C9300L-24T-4X | 128 Gbps | 448 Gbps | 95.23 Mpps | 333.33 Mpps |
| C9300L-48T-4G | 104 Gbps | 424 Gbps | 77.38 Mpps | 315.48 Mpps |
| C9300L-48T-4X | 176 Gbps | 496 Gbps | 130.95 Mpps | 369.05 Mpps |
| C9300L-24P-4G | 56 Gbps | 376 Gbps | 41.66 Mpps | 279.76 Mpps |
| C9300L-24P-4X | 128 Gbps | 448 Gbps | 95.23 Mpps | 333.33 Mpps |
| C9300L-48P-4G | 104 Gbps | 424 Gbps | 77.38 Mpps | 315.48 Mpps |
| C9300L-48P-4X | 176 Gbps | 496 Gbps | 130.95 Mpps | 369.05 Mpps |
| C9300L-48PF-4G | 104 Gbps | 424 Gbps | 77.38 Mpps | 315.48 Mpps |
| C9300L-48PF-4X | 176 Gbps | 496 Gbps | 130.95 Mpps | 369.05 Mpps |
| C9300L-24UXG-4X | 272 Gbps | 592 Gbps | 202.38 Mpps | 440.47 Mpps |
| C9300L-24UXG-2Q | 352 Gbps | 672 Gbps | 261.90 Mpps | 500.00 Mpps |
| C9300L-48UXG-4X | 392 Gbps | 712 Gbps | 291.66 Mpps | 529.76 Mpps |
| C9300L-48UXG-2Q | 472 Gbps | 792 Gbps | 351.19 Mpps | 589.28 Mpps |

All models are at wire-speed nonblocking performance for both IPv4 and IPv6. The forwarding rates in the table above are measured with 64-byte IPv4 packet sizes.

SD-Access architecture

What if you could give time back to IT? Provide network access in minutes for any user or device to any application – without compromise? SD-Access provides the industry's first policy-based automation from network edge to cloud. Your foundation for your digital network, Cisco SD-Access. Built on the principles of Cisco DNA, SD-Access provides end-to-end segmentation to keep user, device, and application traffic separate without a redesign of the network. It automates user access policy so organizations can make sure the right policies are set for any user or device with any application across the network. This is accomplished with a single network fabric across LAN and WLAN, which creates a consistent user experience anywhere without compromising on security.

There are many challenges today in managing the network to drive business outcomes. These limitations are due to manual configuration and fragmented tool offerings. SD-Access provides:

- A transformational management solution that reduces operational expenses and enhances business agility
- Consistent management of wired and wireless network provisioning and policy
- Automated network segmentation and group-based policy
- Contextual insights for fast issue resolution and capacity planning
- Open and programmable interfaces for integration with third-party solutions

For an overview of the key use cases SD-Access addresses, refer to the [SD-Access Solution Overview](#).

Platform benefits

Cisco IOS XE opens a completely new paradigm in network configuration, operation, and monitoring through network automation. Cisco's automation solution is open, standards-based, and extensible across the entire lifecycle of a network device. The various automation mechanisms are outlined below.

- **Automated device provisioning** is the ability to automate the process of upgrading software images and installing configuration files on Cisco Catalyst switches when they are being deployed in the network for the first time. Cisco provides both turnkey solutions such as PnP and off-the-shelf tools such as zero-touch provisioning (ZTP) and Preboot Execution Environment (PXE) that enable an effortless and automated deployment.
- **API-driven configuration** is available with modern network switches such as the Cisco Catalyst 9300 Series. It supports a wide range of automation features and provides robust open APIs over NETCONF, RESTCONF, and GNMI using YANG data models for external tools, both off-the-shelf and custom built, to automatically provision network resources.
- **Granular visibility** enables model-driven telemetry to stream data from a switch to a destination. The data to be streamed is identified through subscription to a data set in a YANG model. The subscribed data set is streamed to the destination at specified intervals. Additionally, Cisco IOS XE enables the push model. It provides near-real-time monitoring of the network, leading to quick detection and rectification of failures.
- **Seamless software upgrades and patching** supports OS resilience. Cisco IOS XE supports patching, which provides fixes for critical bugs and security vulnerabilities between regular maintenance releases. This support lets you add patches without having to wait for the next maintenance release.

Security

- **Encrypted Traffic Analytics (ETA)** is a unique capability for identifying malware in encrypted traffic coming from the access layer. Since more and more traffic is becoming encrypted, the visibility this feature affords for threat detection is critical for keeping your network secure at different layers.
- **AES-256 MACsec encryption** is the IEEE 802.1AE standard for authenticating and encrypting packets between switches. The Cisco Catalyst 9300 Series Switches support 256-bit and 128-bit AES, providing the most secure link encryption.
- **IPsec encryption** delivers secure end-to-end encrypted traffic between sites and connectivity to the Cloud. Catalyst 9300X models support line-rate IPsec up to 100 Gbps, delivering uncompromised secure connectivity.
- **Trustworthy solutions built with Cisco Trust Anchor technology** provide a highly secure foundation for Cisco products. With the Catalyst 9300 Series, this technology enables hardware and software authenticity assurance for supply chain trust and strong mitigation against man-in-the-middle attacks that compromise software and firmware. Trust Anchor capabilities include:
 - **Image signing:** Cryptographically signed images provide assurance that the firmware, BIOS, and other software are authentic and unmodified. As the system boots, the system's software signatures are checked for integrity.

- **Secure Boot:** Cisco Secure Boot technology anchors the boot sequence chain of trust to immutable hardware, mitigating threats against a system's foundational state and the software that is to be loaded, regardless of a user's privilege level. It provides layered protection against the persistence of illicitly modified firmware.
- **Cisco Trust Anchor module:** A tamper-resistant, strong cryptographic, single-chip solution provides hardware authenticity assurance to uniquely identify the product so that its origin can be confirmed to Cisco. This provides assurance that the product is genuine.

Cloud Security

- **Cisco Umbrella® DNS integration:**

Small to midsize networks reliant on managed service providers can now host the Cisco Umbrella agent directly on their Catalyst 9300 Series Switches. This allows the business to easily customize its DNS filtering policies granularly at the user or group level to prevent bring-your-own-device (BYOD) or IoT guest or corporate users from accessing malicious or inappropriate websites, without having to rely on the service provider to push the policies out. It also lets the business optimize use of bandwidth by allowing direct cloud access for trusted apps. Requires a Cisco Catalyst and Cisco DNA Advantage license and Cisco Umbrella license per device.

- **Cisco ASAc app hosting integration:**

The integration of ASAc on Cisco Catalyst 9000 switches simplifies the network design by providing the flexibility to plug small-form-factor firewalls into the network closer to the source. It also avoids complex tunnels to centralized firewalls. This design lowers the total cost of ownership by reducing the number of physical firewall appliances in the network.

The ASAc Firewall App hosting solution hosts a virtual firewall or ASAc on Cisco Catalyst 9300 Series Switches. All the physical firewalls next to a switch can be virtualized and deployed on the switch itself. As in a traditional network, the SecOps team manages the ASAc firewalls deployed on the Catalyst switches, and the NetOps team instantiates the application and performs lifecycle management using Cisco Catalyst Center. The SecOps team controls policy management using Cisco Defense Orchestrator. Both the SecOps and NetOps teams can seamlessly manage the network without any disruptions.

The container version of Cisco ASAc provides full firewall functionality to secure IT, OT, and IoT converged networks. ASAc uses Layer 3 firewall policies and does a stateful inspection of the traffic.

The ASAc firewall runs on a 240-GB external SSD that is mounted on a Cisco Catalyst 9300 Series Switch. Cisco Catalyst Center deploys the ASAc on these Catalyst switches, and ASAc is then onboarded to Cisco Defense Orchestrator.

Service assurance

- **Cisco ThousandEyes integration:**

Deliver a superior network and service experience for your users, employees, and partners with groundbreaking observability from network to app. Cisco ThousandEyes network tests are now integrated into Cisco Catalyst 9300 Series Switches with Cisco Catalyst and Cisco DNA Advantage licenses, giving you visibility beyond your campus

perimeter so you can resolve issues faster. The Cisco ThousandEyes Network and Application Synthetics license is included by default upon the selection of a Cisco Catalyst and Cisco DNA Advantage option with a 3-year, 5-year, or 7-year subscription. Please see [Cisco Catalyst and DNA Advantage Use Right to ThousandEyes](#) for more information about the free Cisco ThousandEyes entitlements that come with your Cisco Catalyst 9300 or 9400 Series switch's Cisco DNA Advantage subscription.

Resiliency and high availability

- **StackWise-1T:** Cisco Catalyst 9300 Series modular uplink models (C9300X SKUs) support the industry's highest back-panel stacking bandwidth solution (1 Tbps) with StackWise-1T. Up to eight switches can be configured in a StackWise-1T with the special connector at the back of the switch, using dedicated stack cables.
- **StackWise-480:** Cisco Catalyst 9300 Series modular uplink models (C9300 SKUs) support a high-speed back-panel stacking bandwidth solution (480 Gbps) with StackWise-480. Up to eight switches can be configured in a StackWise-480 with the special connector at the back of the switch, using dedicated stack cables.
- **StackWise-320:** Cisco Catalyst 9300 Series fixed uplink models (C9300L and C9300LM SKUs) support a stacking bandwidth solution (320 Gbps) with StackWise-320. Up to eight switches can be optionally configured in a StackWise-320 with the special stack kit at the back of the switch, using dedicated stack cables.
- **Cisco StackPower:** Cisco StackPower is an innovative power interconnect system that allows the power supplies in a stack to be shared as a common resource among all the switches. This allows you to simply add one extra power supply in any switch of the stack and either provide power redundancy for any of the stack members or simply add more power to the shared pool. Up to four switches can be configured in a StackPower stack with the special connector at the back of the switch. However, with the use of the XPS-2200 appliance, up to eight switches can be configured in the StackPower stack. **Cisco StackPower is supported only on the models with a modular uplink stack - C9300 and C9300X SKUs. Catalyst 9300X models support StackPower+, delivering more power over StackPower cables compared to the Catalyst 9300 models.**



Figure 7. Cisco Catalyst 9300 Series StackPower

- **High availability:** The Catalyst 9300 Series supports high-availability features, including the following:
 - Cross-stack EtherChannel provides the ability to configure Cisco EtherChannel technology across different members of the stack for high resiliency.

- **Flexlink+:** Flexlink+ allows you to set up active and backup interfaces or port channels, which can provide Layer 2 failover redundancy without the use of Spanning Tree Protocol (STP).
- **Extended fast software upgrade** provides the ability to upgrade the platform software or to reload the system in under 30 seconds of traffic impact, in both standalone and stack configurations.
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) provides rapid spanning tree convergence independent of spanning tree timers and also offers the benefit of Layer 2 load balancing and distributed processing.
- Per-VLAN Rapid Spanning Tree (PVRST+) allows rapid spanning tree (IEEE 802.1w) reconvergence on a per-VLAN spanning tree basis, providing simpler configuration than MSTP. In both MSTP and PVRST+ modes, stacked units behave as a single spanning tree node.
- Switch-port auto-recovery (“err-disable” recovery) automatically attempts to reactivate a link that is disabled because of a network error.
- The Catalyst 9300 Series platform delivers an industry-leading non-stop forwarding (NSF)/stateful switchover (SSO) resiliency architecture in a stackable solution with sub-50-ms failover.
- Always-on wireless network with stateful switchover when wireless functionality is enabled on stack of Catalyst 9300 Series Switches.

Deep buffer technology

The Catalyst 9300 Series higher-scale models have a deeper buffer to address the requirements of rich multimedia lossless content delivery and large routing tables in a fixed access solution with a wide range of uplink choices for deployment flexibility.

Flexible NetFlow

- Cisco IOS Software FNF is the next generation in flow visibility technology. It enables optimization of the network infrastructure, reduces operating costs, and improves capacity planning and security incident detection with increased flexibility and scalability. The Catalyst 9300 Series is capable of up to 64,000 flow entries on 48-port, 24-port, and 12-port models and up to 128,000 flow entries on Multigigabit models.

Application visibility and control

- Next-Generation Network-Based Application Recognition (NBAR2) enables advanced application classification techniques, up to 1400 predefined and well-known application signatures, and up to 150 encrypted applications on the Cisco Catalyst 9000 switches. Some of the most popular applications included are Skype, Office 365, Microsoft Lync, Webex, and Facebook, among many others that are predefined and easy to configure. NBAR2 provides the network administrator with an important tool to identify, control, and monitor end-user application usage while helping ensure a quality user experience and securing the network from malicious attacks. NBAR2 leverages FNF to report application performance and activities within the network to any supported NetFlow collector, such as Cisco Prime®, Cisco Secure Network Analytics, or any compliant third-party tool.

QoS

- **Superior QoS:** The Cisco Catalyst 9300 Series offers Gigabit Ethernet speeds with intelligent services that keep traffic flowing smoothly, even at 10 times the normal network speed. Industry-leading mechanisms for cross-stack marking, classification, and scheduling deliver superior performance for data, voice, and video traffic at wire speed. Superior QoS includes granular wireless bandwidth management and fair sharing, 802.1p class of service (CoS) and Differentiated Services Code Point (DSCP) field classification, shaped round robin (SRR) scheduling, Committed Information Rate (CIR), and eight egress queues per port.

Service discovery

- **Multicast DNS (mDNS) gateway:** This service discovery gateway capability facilitates sharing of services advertised using the Apple mDNS (Bonjour) protocol, such as printers, Apple TVs, and file services across the network. Additionally, the administrator can create policies defining which services can be seen and accessed by the users in the network. This capability facilitates a BYOD rollout.

Smart operation

- **Simplified Campus Automation** is designed to optimize the discovery and configuration of devices in your network with a more streamlined simple and easy-to-use automation tool. With features such as simplified discovery, IT can discover devices within the network with just a few steps. Also available is a more streamlined GUI that provides a simplified view of switch configurations and software details on a port-by-port basis.

Cloud management with IOS XE: Cloud management with IOS XE simplifies network operations by providing a centralized, intuitive dashboard that enables IT teams to manage, configure, and monitor all devices in real time. With features like zero-touch provisioning, automated firmware updates, and port-level visibility, cloud management reduces manual effort, minimizes errors, and delivers end-to-end visibility across the network.

The Cisco Catalyst 9300 Series Switches provide flexibility in cloud management by offering the ability to choose the configuration source of each device managed from the Meraki dashboard.

Configuration Source: Cloud: This operating mode offers the full cloud management experience. Device configurations are managed via the Meraki user interface and delivered entirely from the cloud. This capability also offers a read-only Cloud CLI terminal to view the entire running configuration or perform advanced troubleshooting using IOS XE show commands.

Configuration Source: Device: This capability is an evolution of Cloud Monitoring. With device configuration, users can onboard their device to the cloud to access central monitoring and troubleshooting tools, as well as a Cloud CLI terminal to execute read/write commands. Configurations are managed via local console, Secure Shell (SSH), or CLI and remain local to the device.

To learn more about cloud management with IOS XE, see [Cloud Management with IOS XE](#).

- **Meraki dashboard monitoring and management:** Catalyst 9300 Series Switches can be ordered or migrated to be Meraki dashboard managed, combining the simplicity of the Meraki dashboard with the power of Catalyst 9000 switching. All configuration and monitoring is performed natively in the dashboard.

- **WebUI:** WebUI is an embedded GUI-based device-management tool that provides the ability to provision the device, to simplify device deployment and manageability, and to enhance the user experience. It comes with the default image, so there is no need to enable anything or install any license on the device. You can use WebUI to build configurations, and to monitor and troubleshoot the device without having CLI expertise.
- **Efficient switch operation***: Cisco Catalyst 9300 Series Switches provide optimum power saving with Energy Efficient Ethernet (EEE) on the RJ-45 ports and low-power operations for industry best-in-class power management and power consumption capabilities. The ports support reduced power modes so that ports not in use can move into a lower power utilization state. Other efficient switch operation features are as follows:
 - Per-port power consumption command allows customers to specify a maximum power setting on an individual port.
 - Per-port PoE power sensing measures actual power being drawn, enabling more intelligent control of powered devices. The PoE MIB provides proactive visibility into power usage and allows you to set different power-level thresholds.
- **RFID tags:** Catalyst 9300 Series Switches have an embedded RFID tag that facilitates easy asset and inventory management using commercial RFID readers.
- **Blue beacon:** Catalyst 9300 Series Switches support a blue beacon LED for easy identification of the switch being accessed.

Open standards-based fabric

The Cisco Catalyst 9300 Series Switches support modern fabric technologies such as VXLAN with Border Gateway Protocol Ethernet VPN (BGP-EVPN) control plane, with open APIs. This technology provides the flexibility to build open standards-based fabrics to secure infrastructure, users, and data. This fabric architecture provides rich unicast and multicast protocol support to optimally route or bridge traffic as well as support for integrated campus services, all of which can be automated via open APIs to effectively configure and monitor the network.

Programmability

Cisco IOS XE provides open standards-based APIs such as NETCONF, RESTCONF, and gNMI to simplify provisioning and configuration, allowing network administrators to save time when provisioning new network devices and to prevent the human errors that often are a byproduct of manual configuration. Integrating ZTP with various DevOps toolkits allows network administrators to drastically reduce the time and resources needed to onboard a device to their network. The ability to collect real-time statistics through model-driven telemetry through gRPC and gNMI allows administrators to integrate with many health monitoring tools to optimize their environments and to troubleshoot and provide alerts about any potential problems.

High-performance IP routing

The Cisco Express Forwarding hardware routing architecture delivers extremely high-performance IP routing in the Cisco Catalyst 9300 Series Switches, based on:

- IP unicast routing protocols (including static, Routing Information Protocol version 1 [RIPv1], RIPv2, RIPng, and Open Shortest Path First [OSPF]) are supported for small network routing applications with the Network Essentials stack. Equal-cost routing facilitates Layer 3 load balancing and redundancy across the stack.
- Advanced IP unicast routing protocols (including full OSPF, Enhanced Interior Gateway Routing Protocol [EIGRP], BGPv4, and Intermediate System-to-Intermediate System version 4 [IS-ISv4]) are supported for load balancing and for constructing scalable LANs. IPv6 routing (using OSPFv3 and BGPv6) is supported in hardware for maximum performance.
- Protocol-Independent Multicast (PIM) for IP multicast routing is supported, including PIM Sparse Mode (PIM SM), and Source-Specific Multicast (SSM).
- IPv6 addressing is supported on interfaces with appropriate show commands for monitoring and troubleshooting.

Audio Video Bridging

Starting with Cisco IOS XE Software Release 16.8, the Cisco Catalyst 9300 Series supports the IEEE 802.1 AVB standard. This standard provided the means for highly reliable delivery of low-latency, time-synchronized audio and video streaming services through Layer 2 Ethernet networks. The standard also makes it easier to integrate new services and for AV equipment from different vendors to interoperate.

Benefits

- Improves quality of experience by lowering jitter and latency for time-synchronized delivery of high-quality AV.
- Provides scalability of applications across networked deployments, including expansive and complex AV infrastructure.
- Lowers total cost of ownership (TCO) with reduced cabling (lowers CapEx) and no license fees (lowers OpEx).

For more details about AVB and specific models supported, see <https://www.cisco.com/go/avb>.

Multigigabit Ethernet technology

Cisco Multigigabit Ethernet technology allows you to achieve bandwidth speeds from 1 Gbps to 10 Gbps over traditional Category 5e/6 cabling or above. This technology addresses the need for exponential increases in bandwidth with the enormous growth of 802.11ac Wave 2, to be eclipsed by the growth of Wi-Fi 6 and new wireless applications without having to replace current cabling infrastructure.

Multiprotocol Label Switching

The Cisco Catalyst 9300 Series Switches support Multiprotocol Label Switching (MPLS), which combines the performance and capabilities of Layer 2 (data link layer) switching with the proven scalability of Layer 3 (network layer) routing. MPLS enables explosive growth in network utilization while providing the opportunity to differentiate services without sacrificing the existing network infrastructure. MPLS support includes:

- **MPLS Layer 3 VPN:** An MPLS VPN consists of a set of sites that are interconnected by means of an MPLS provider core network. At each customer site, one or more customer edge (CE) devices attach to one or more provider edge (PE) devices.
- **VPLS:** Virtual Private LAN Service (VPLS) enables enterprises to link together their Ethernet-based LANs from multiple sites via the infrastructure provided by their service provider.
- **EoMPLS:** Ethernet over MPLS (EoMPLS) is a category of Any Transport over MPLS (AToM) to transport Layer 2 packets over an MPLS backbone.
- **MPLS over GRE:** L3VPN over Generic Routing Encapsulation (GRE) and VPLS over GRE are supported to tunnel MPLS/VPLS packets over non-MPLS networks using GRE tunneling.

Power over Ethernet leadership

Cisco UPOE and UPOE+: PoE removes the need for wall sockets to power each PoE-enabled device and eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments. Cisco UPOE extends the IEEE PoE+ standard to double the power per port to 60 watts. This facilitates delivery of network power to a broad range of devices requiring higher power, including virtual desktop terminals, IP turrets, compact switches, building management gateways, LED lights, wireless access points, and IP phones. For even higher-powered devices such as those in smart building and IoT applications, Cisco Catalyst 9300 UPOE+ switches can deliver PoE power up to 90W and. UPOE+ ports provide data and power over a single cable to power devices like wireless access points, digital signage, security cameras, thermal cameras with pan-tilt-zoom features, LED lighting fixtures, and large display screens. UPOE+ offers reduced cabling and installation costs without need for permits, device daisy-chaining, real-time device information, centralized management and remote control, and fast, flexible device installation, enabling devices to be positioned in a practical location instead of Catalyst 9300 Series modular uplink (C9300 and C9300X SKUs) models support Cisco UPOE, PoE+, and PoE, thereby addressing the largest range of network power needs.

Catalyst 9300 Series fixed uplink (C9300L and C9300LM SKUs) models support Cisco UPOE, PoE+, and PoE.

Tables 10 through 13 show the power supply combinations required for different PoE needs.

Table 10. Power supply requirements for Catalyst 9300 Series modular uplink PoE/PoE+ models (C9300-xxP SKUs)

| | 24-port PoE switch | 48-port PoE switch |
|--|---|--|
| PoE on all ports (15.4W per port) | 1 PWR-C1-715WAC/ PWR-C1-715WAC-P/ PWR-C1-715WDC | 1 PWR-C1-1100WAC/PWR-C1- 1100WAC-P or 2 PWR-C1-715WAC/ PWR-C1-715WAC-P/PWR-C1-715WDC |

| | 24-port PoE switch | 48-port PoE switch |
|---|---|--|
| PoE+ on all ports (30W per port) | 1 PWR-C1-1100WAC/ PWR-C1-1100WAC-P or 2 PWR-C1-715WAC/ PWR-C1-715WAC-P/ PWR-C1-715WDC | 2 PWR-C1-1100WAC/PWR-C1- 1100WAC-P or 1 PWR-C1-1100WAC/ PWR-C1-1100WAC-P and 1 PWR- C1-715WAC/PWR-C1-715WAC-P/ PWR-C1-715WDC |

Table 11. Power supply requirements for Catalyst 9300 Series UPOE models (C9300-xxU/UB/UXM/UN, C9300L-xxUXG-xx SKUs)

| | 24-port Cisco UPOE switch | 48-port Cisco UPOE switch | 48- and 24-port Multigigabit Cisco UPOE switch* |
|---|---|---|---|
| Cisco UPOE (60W per port) and IEEE 802.3bt Type 3 on all ports (24-port switch) or up to 30 ports (48-port switch) | 1 PWR-C1-1100WAC/PWR-C1- 1100WAC-P and 1 PWR-C1- 715WAC/PWR-C1-715WAC-P/ PWR-C1-715WDC | 2 PWR-C1- 1100WAC/PWR- C1-1100WAC-P | 2 PWR-C1- 1100WAC/PWR-C1- 1100WAC-P |

Table 12. Power supply requirements for Catalyst 9300 Series UPOE+ models (C9300-xxH SKUs)

| | 24-port Cisco UPOE+ switch | 48-port Cisco UPOE+ switch |
|--|---|---|
| Cisco UPOE+ (90W per port) and IEEE 802.3bt Type 4 on 21 ports (24-port and 48-port switch) | 1 PWR-C1-1100WAC/PWR-C1- 1100WAC-P and 1 PWR-C1- 715WAC/PWR-C1-715WAC-P/ PWR-C1-715WDC | 2 PWR-C1-1100WAC/PWR-C1- 1100WAC-P or 2 PWR-C1-1900WAC-P |

Table 13. Power supply requirements for Catalyst 9300 Series fixed uplink PoE/PoE+ models (C9300L-xxP SKUs)

| | 24-port PoE switch | 48-port PoE switch |
|--|--|--|
| PoE on all ports (15.4W per port) | 1 PWR-C1-715WAC-P/ PWR-C1-715WDC | 1 PWR-C1-1100WAC-P or 2 PWR-C1-715WAC-P |
| PoE+ on all ports (30W per port) | 1 PWR-C1-1100WAC-P or 2 PWR-C1-715WAC-P/ PWR-C1-715WDC | 2 PWR-C1-1100WAC-P or 1 PWR-C1-1100WAC-P and 1 PWR-C1-715WAC-P/PWR-C1-715WDC |

- Perpetual PoE:** With Perpetual PoE, the PoE power is maintained during a switch reload. This is important for IoT endpoints such as PoE-powered lights, so that there is no disruption during switch reboot.
- Fast PoE:** When power is restored to a switch, PoE starts delivering power to endpoints without waiting for the operating system to fully load, thereby speeding up the time for the endpoint to start up.

* C9300-48UN, C9300-24UX, and C9300-48UXM are available with PWR-C1-1100WAC-P, a Platinum-rated power supply. Platinum-rated power supplies are more efficient, lowering operating power costs.

* PWR-C1-1100WAC-UP and PWR-C1-715WAC-UP Platinum-rated power supply upgrade options are available to upgrade the default AC power supply to 1100W or 715W.

Software requirements

Cisco Catalyst and Cisco DNA Software for Access Switching is available for the Cisco Catalyst 9300 Series.

Meraki software for cloud management is also available for certain models.

Cisco Catalyst and Cisco DNA Software for Access Switching offers comprehensive solutions for the enterprise campus and branch offices. Cisco Catalyst and Cisco DNA for Access Switching introduces a simpler and more economical way to deploy access, aggregation, and core switches across enterprise campus and branch locations.

The Cisco Catalyst and Cisco DNA Subscription for Switching offer delivers an unbound network on an open and extensible architecture to help you navigate the digital journey. This subscription offer simplifies the buying process and includes lower initiation costs and flexible terms. It includes Cisco Catalyst and Cisco DNA Advantage Software with full Cisco DNA capabilities and SD-Access, bundled with ISE Base, ISE Plus, and Secure Network Analytics.

For ordering information for Cisco Catalyst and Cisco DNA Software for the Cisco Catalyst 9300 Series, go to <https://www.cisco.com/c/en/us/products/software/one-access/switching-part-numbers.html>.

Cisco Catalyst 9300 Series Switches run on Cisco IOS XE Release 16.5.1a or later with the following exceptions. Catalyst 9300 Series 1G fiber models (C9300-xxS SKUs) are supported on Cisco IOS XE Release 16.11.1a or later. Catalyst 9300 Series fixed uplink models (C9300L SKUs) are supported on Cisco IOS XE Release 16.11.1b or later. These software releases include all the features listed earlier in the Platform Benefits section.

The Meraki software option combines the simplicity of the Meraki dashboard with power of Catalyst 9000 switching hardware. To satisfy high-bandwidth applications and the deployment of high-speed 802.11ax/Wi-Fi 6/6E access points, the Meraki software option provides Multigigabit ports, 480G stacking, and modular 10G/40G uplinks. Catalyst 9300 Series models with the Meraki software option deliver resiliency with fast stack convergence and StackPower. They provide Adaptive Policy using an over-the-wire tag that segments traffic into security groups to deliver scalable security. The Catalyst 9300 models integrated under the Meraki dashboard provide a simple, powerful solution to the most demanding wired access applications.

Catalyst 9300 Series Switches come with Adaptive Policy to provide simple and scalable security policies to segment traffic using security groups in Meraki dashboard. Security groups are created in the dashboard using natural language such as “IoT device” and “Guest.” The security policy intent (for example, Permit or Deny) is then simply provisioned between security groups, which results in the segmentation of each group’s traffic. By making security policy management intuitive and scalable relative to legacy IP address-based ACLs, Adaptive Policy empowers operators to confidently secure their network traffic independent of future network changes.

Catalyst 9300 Series Switches can be ordered directly or migrated to the Meraki software option. For model compatibility and more information, please see Getting started: Cisco Catalyst 9300 Management with Meraki Dashboard.

You can also refer to Meraki data sheets that provide details on the models orderable with the Meraki software option ([Catalyst C9300-M data sheet](#), [Catalyst C9300X-M data sheet](#), [Catalyst C9300L-M data sheet](#)) as well as supported optics and accessories.

Licensing packaging

The Cisco Catalyst 9000 family of switches introduces a new and simplified licensing package in the form of base and add-on licenses.

- **The perpetual licensing** package includes the Network Essentials and Network Advantage licensing options that are tied to the hardware. Between them, the base licensing packages cover switching fundamentals, management automation, troubleshooting, and advanced switching features. These network licenses are perpetual.

The subscription licensing package includes the Cisco Catalyst and Cisco DNA Essentials, Cisco Catalyst and Cisco DNA Advantage, and Meraki Advanced and Enterprise options. In addition to on-box capabilities, the features available with this package provide Cisco innovations on the switch, as well as on Cisco Catalyst Center and Meraki dashboard. For Catalyst 9300 models ordered with a Network Essentials and Network Advantage license, a Cisco Catalyst or Cisco DNA subscription license is mandatory at the time of configuration. For Catalyst 9300 models ordered with a Meraki SKU, the term license is ordered separately but is required for the switch to be recognized in Meraki dashboard. With Cisco Catalyst and Cisco DNA software licenses, customers receive embedded SWSS, which covers 24x7x365 Cisco Technical Assistance Center (TAC) support, software release updates, advanced support analytics, and designated service management. This is valid only for the Cisco Catalyst and Cisco DNA Software subscription stacks (Cisco Catalyst and Cisco DNA Essentials or Advantage).

Note: For full hardware support, including the perpetual network stack, customers will require Cisco Smart Net Total Care® for 24x7x365 Cisco TAC support, proactive security and product alerts, and product lifecycle management. An additional option for hardware support is Solution Support for your multivendor Cisco solution environment.

License consumption is easily determined by the package itself. While Network Essentials and Network Advantage perpetual licenses are always permanent and without an expiration date, subscription licenses have to be purchased for a 3-, 5-, or 7-year term (and hence are also known as term-based licenses). Table 14 shows the combinations of network perpetual and Cisco Catalyst and Cisco DNA Software subscription licenses that must be purchased.

Table 14. Cisco Catalyst, Cisco DNA, and network licensing combinations

| | Cisco Catalyst and Cisco DNA Essentials | Cisco Catalyst and Cisco DNA Advantage |
|--------------------|---|--|
| Network Essentials | Yes** | Yes** |
| Network Advantage | No* | Yes |

* At the time of Cisco Catalyst and Cisco DNA license renewal, the Cisco Catalyst and Cisco DNA Essentials license can be purchased to be used with Network Advantage.

** Network Advantage is inclusive of Network Essentials features.

Managing licenses with Smart Accounts

Creating Smart Accounts by using the Cisco Smart Software Manager (SSM) enables you to manage your software licenses from a centralized website. You can set up Cisco SSM to receive daily email alerts and to be notified of expiring subscription licenses that you want to renew.

You must order a Cisco Catalyst or Cisco DNA subscription term license in order to purchase a switch with Network Essentials or Network Advantage perpetual licenses. When the license term expires, you can either renew the add-on license to continue using it or deactivate the add-on license and then reload the switch to continue operating with the base license capabilities.

Both the base and add-on licenses are also available for a 90-day evaluation period. An evaluation license is activated temporarily, without purchase. An expired evaluation license cannot be reactivated after reload.

It is not required to deploy Cisco Catalyst Center just to use Cisco Catalyst, Cisco DNA, or network packages. Meraki dashboard is required to deploy a Catalyst 9300 switch with a Meraki software license.

Introduction to Smart Licensing

Cisco Smart Licensing is a flexible licensing model that provides you with an easier, faster, and more consistent way to purchase and manage software across the Cisco portfolio and across your organization. And it's secure – you control what users can access. With Smart Licensing you get:

- **Easy activation:** Smart Licensing establishes a pool of software licenses that can be used across the entire organization—no more product activation keys (PAKs).
- **Unified management:** My Cisco Entitlements provides a complete view into all of your Cisco products and services in an easy-to-use portal, so you always know what you have and what you are using.
- **License flexibility:** Your software is not node-locked to your hardware, so you can easily use and transfer licenses as needed.

To use Smart Licensing, you must first set up a Smart Account on Cisco Software Central (software.cisco.com).

For a more detailed overview of Cisco Licensing, go to cisco.com/go/licensingguide.

Table 15. Software licenses

| | Cisco Catalyst Software subscription | Cisco DNA Software subscription | Cisco Meraki Software subscription | Network stack |
|--------------------------------|--------------------------------------|---------------------------------|------------------------------------|-----------------------|
| Packages¹ | 3-, 5-, or 7-year terms | 3-, 5-, or 7-year terms | 1-, 3-, 5-, 7-, or 10 year terms | Perpetual |
| Tiers | Advantage, Essentials | Advantage, Essentials | Advanced, Enterprise | Advantage, Essentials |
| Portability² | ✓ | ✓ | | ✓ |

| | Cisco Catalyst Software subscription | Cisco DNA Software subscription | Cisco Meraki Software subscription | Network stack |
|--|---|---|--|-----------------------------|
| Management options | Catalyst Center, Meraki dashboard monitoring and management | Catalyst Center, Meraki dashboard monitoring and management | Meraki dashboard management | Meraki dashboard CLI, WebUI |
| Included support | Base product-level support for hardware, software, and OS | SWSS | Product-level support for hardware, software, and OS | ✗ |
| Included³ add-ons: Common ISE policy, ThousandEyes network and application assurance, Cisco Spaces | ✓ | ✓ | ✗ | ✗ |

¹ For all new orders, subscription licenses are mandatory and must be of the same tier as network licenses.

² Portability within the same Catalyst 9000 series of hardware.

³ Available only with the Advantage tier.

There are three choices for software subscription: Cisco DNA, Cisco Catalyst, or Cisco Meraki. They provide:

- Flexible licensing models to smoothly distribute customers' software spending over time.
- Investment protection for software purchases through software services-enabled license portability.
- Access to updates, upgrades, and new technology from Cisco through Cisco Software Support Service (SWSS).
- Base product-level support for hardware, software, and Cisco IOS (Catalyst software only).
- ISE licenses included in the Advantage tier to facilitate zero-trust network security* (Catalyst software only).
- Access to end-to-end network visibility with Cisco Spaces, service assurance through Cisco ThousandEyes Network and Application Synthetics and app hosted ASAC firewall (with the Advantage license).

Manage your entire switching structure as a single, converged component. With one management system, on-premises, virtual, or in the cloud, and one policy for wired and wireless networks, it offers an efficient way to provide more secure access.

Tables 16 and 17 show the features included in the Network Essentials and Advantage packages and in the Cisco Catalyst and Cisco DNA Essentials and Advantage packages.

Table 16. Network Essentials and Advantage package features

| Features | Network Essentials | Network Advantage |
|---|--------------------|-------------------|
| Switch fundamentals Layer 2, Routed Access (RIP, EIGRP Stub, OSPF – 1000 routes), PBR, PIM Stub Multicast (1000 routes)), PVLAN, VRRP, PBR, CDP, QoS, FHS, 802.1X, MACsec-128, CoPP, SXP, IP SLA Responder, SSO | ✓ | ✓ |
| Advanced switch capabilities and scale BGP, EIGRP, HSRP, IS-IS, BSR, MSDP, PIM-BIDIR,* IP SLA, OSPF | ✗ | ✓ |
| Network segmentation VRF, VXLAN, LISP, Cisco TrustSec®, SGT, MPLS, mVPN | ✗ | ✓ |
| Automation NETCONF, RESTCONF, gRPC, YANG, PnP Agent, ZTP/Open PnP, GuestShell (On-Box Python) | ✗ | ✓ |
| Telemetry and visibility Model-driven telemetry, sampled NetFlow, SPAN, RSPAN | ✓ | ✓ |
| High availability and resiliency Nonstop Forwarding (NSF), Graceful Insertion and Removal (GIR), Extended Fast Software Upgrade (xFSU), Software Patching (CLI based) | ✗ | ✓ |
| IoT integration AVB, PTP, CoAP | ✗ | ✓ |
| Security MACsec-256 | ✗ | ✓ |

Table 17. Cisco Catalyst and Cisco DNA Essentials and Advantage package features (add a section for other software support and add Prime, ISE and Stealthwatch support)

| Features | Cisco Catalyst and Cisco DNA Essentials | Cisco Catalyst and Cisco DNA Advantage |
|--|---|--|
| Switch features | | |
| Optimized network deployments | ✗ | ✓ |
| Cisco Catalyst Service for Bonjour | | |
| Advanced telemetry and visibility | ✓ | ✓ |
| Full Flexible NetFlow, EEM | | |
| Optimized telemetry and visibility | ✗ | ✓ |
| ERSPAN, AVC (NBAR2), app hosting (in containers/VMs), Wireshark | | |
| Advanced security | ✗ | ✓ |
| Encrypted Traffic Analytics (ETA), IPsec | | |
| Cisco Catalyst Center features | | |
| Simplified Campus Automation | ✓ | ✓ |
| Simplified Campus Automation optimizes the discovery and configuration of devices in your network with a more streamlined simple and easy-to-use automation tool | | |
| Day-0 network bring-up automation | ✓ | ✓ |
| Cisco Network Plug-and-Play application, network settings, device credentials, LAN automation, host onboarding | | |
| Element management | ✓ | ✓ |
| Discovery, inventory, topology, software image, licensing, and configuration management | | |
| Element management | ✗ | ✓ |
| Patch management | | |
| Basic Assurance | ✓ | ✓ |
| Health dashboards – Network, Client, Application; switch and wired client health monitoring | | |

| Features | Cisco Catalyst and Cisco DNA Essentials | Cisco Catalyst and Cisco DNA Advantage |
|---|---|--|
| Cisco ThousandEyes Network and Application Synthetics Network performance metrics, dashboarding, visibility into app and service experience, end-to-end visibility across cloud and DC applications | ✗ | ✓ |
| App hosted Cisco ASAc firewall Stateful inspection of network traffic with Cisco Adaptive Security Virtual Appliance (ASAc) without any additional hardware | ✗ | ✓ |
| SD-Access Policy-based automation and assurance for wired and wireless | ✗ | ✓ |
| Network assurance and analytics Global insights, trends, compliance, custom reports; switch 360, wired client 360; fabric and non-fabric insights; app health, app 360, app performance (loss, latency, jitter) | ✗ | ✓ |

Catalyst 9300 Series Switches can be migrated into Meraki mode (fully cloud managed). For model compatibility and more information, see Getting Started: Cisco Catalyst 9300 Management with Meraki Dashboard: https://documentation.meraki.com/MS/Deployment_Guides/Getting_started%3A_Cisco_Catalyst_9300_Management_with_Meraki_Dashboard.

Catalyst switches can also be ordered in Meraki mode by using the “-M” part numbers. For ordering information for Cisco C9300\X-M switches, please refer to the Meraki data sheets listing -M part numbers.

Meraki data sheets:

- [Catalyst 9300-M data sheet](#)
- [Catalyst 9300X-M data sheet](#)
- [Catalyst 9300L-M data sheet](#)
- [Catalyst C9300/X/L-M Installation Guide](#)
- [SFP and Stacking Accessories for Meraki C9300/X/L-M Switches](#)

Specifications

Dimensions, weight, acoustic, mean time between failures

The table below shows the dimensions, weights, acoustic details, and mean time between failures of all models of Cisco Catalyst 9300 Series Switches.

Table 18. Model dimensions, weight, and mean time between failures (MTBF) metrics

| General specifications | | | |
|----------------------------------|---------------------|---------------------------|-------------------------|
| Dimensions (H x W x D) in inches | | | |
| Model | Chassis only | With default power supply | With 1100W power supply |
| C9300X-48HX | 1.73 x 17.5 x 19 | 1.73 x 17.5 x 22.03 | 1.73 x 17.5 x 22.03 |
| C9300X-48TX | 1.73 x 17.5 x 19 | 1.73 x 17.5 x 20.56 | 1.73 x 17.5 x 22.03 |
| C9300X-48HXN | 1.73 x 17.5 x 17.57 | 1.73 x 17.5 x 20.63 | 1.73 x 17.5 x 20.63 |
| C9300X-24HX | 1.73 x 17.5 x 17.57 | 1.73 x 17.5 x 20.63 | 1.73 x 17.5 x 20.63 |
| C9300X-12Y | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 17.6 | 1.73 x 17.5 x 19.2 |
| C9300X-24Y | 1.73 x 17.5 x 17.6 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 20.7 |
| C9300-24T | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 17.7 | 1.73 x 17.5 x 19.2 |
| C9300-24P | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 17.7 | 1.73 x 17.5 x 19.2 |
| C9300-24U | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 19.2 |
| C9300-24UX | 1.73 x 17.5 x 17.1 | 1.73 x 17.5 x 20.2 | 1.73 x 17.5 x 20.2 |
| C9300-24UB | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 19.2 |
| C9300-24UXB | 1.73 x 17.5 x 17.1 | 1.73 x 17.5 x 20.2 | 1.73 x 17.5 x 20.2 |
| C9300-24H | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 19.2 |
| C9300-48T | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 17.7 | 1.73 x 17.5 x 19.2 |
| C9300-48P | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 17.7 | 1.73 x 17.5 x 19.2 |
| C9300-48U | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 19.2 |
| C9300-48UXM | 1.73 x 17.5 x 19.1 | 1.73 x 17.5 x 22.2 | 1.73 x 17.5 x 22.2 |
| C9300-48UN | 1.73 x 17.5 x 19.1 | 1.73 x 17.5 x 22.2 | 1.73 x 17.5 x 22.2 |

| General specifications | | | |
|---------------------------------------|-------------------------|----------------------|--|
| C9300-48UB | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 19.2 |
| C9300-48H | 1.73 x 17.5 x 16.1 | 1.73 x 17.5 x 19.2 | 1.73 x 17.5 x 19.2 |
| C9300-24S | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 | 1.73 X 17.5 X 20.7 |
| C9300-48S | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 | 1.73 X 17.5 X 20.7 |
| C9300LM-48UX-4Y | 1.73" x 17.50" x 13.03" | 1.73 x 17.50 x 13.17 | 1.73 x 17.50 x 13.03 (w/ DC power supply) |
| C9300LM-48U-4Y | 1.73" x 17.50" x 13.03" | 1.73 x 17.50 x 13.17 | 1.73 x 17.50 x 13.03 (w/ DC power supply) |
| C9300LM-24U-4Y | 1.73" x 17.50" x 13.03" | 1.73 x 17.50 x 13.17 | 1.73 x 17.50 x 13.03 (w/ DC power supply) |
| C9300LM-48T-4Y | 1.73" x 17.50" x 10.84" | 1.73 x 17.50 x 12.39 | 1.73 x 17.50 x 11.86 (w/ DC power supply) |
| C9300L-24T-4G | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-24T-4X | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-48T-4G | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-48T-4X | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-24P-4G | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-24P-4X | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-48P-4G | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| C9300L-48P-4X | 1.73 X 17.5 X 16.1 | 1.73 X 17.5 X 17.7 | 1.73 X 17.5 X 19.2 |
| Dimensions (H x W x D) in centimeters | | | |
| C9300X-48HX | 4.4 x 44.5 x 48.3 | 4.4 x 44.5 x 56.0 | 4.4 x 44.5 x 56.0 |
| C9300X-48TX | 4.4 x 44.5 x 48.3 | 4.4 x 44.5 x 52.2 | 4.4 x 44.5 x 56.0 |
| C9300X-48HXN | 4.4 x 44.5 x 44.6 | 4.4 x 44.5 x 52.4 | 4.4 x 44.5 x 52.4 |
| C9300X-24HX | 4.4 x 44.5 x 44.6 | 4.4 x 44.5 x 52.4 | 4.4 x 44.5 x 52.4 |
| C9300X-12Y | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.7 | 4.4 x 44.5 x 48.8 |
| C9300X-24Y | 4.4 x 44.5 x 44.7 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 52.6 |

| General specifications | | | |
|------------------------|-------------------|-------------------|---|
| C9300-24T | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300-24P | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300-24U | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300-24UX | 4.4 x 44.5 x 43.4 | 4.4 x 44.5 x 51.3 | 4.4 x 44.5 x 51.3 |
| C9300-24H | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300-48T | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300-48P | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300-48U | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300-48UXM | 4.4 x 44.5 x 48.5 | 4.4 x 44.5 x 56.4 | 4.4 x 44.5 x 56.4 |
| C9300-48UN | 4.4 x 44.5 x 48.5 | 4.4 x 44.5 x 56.4 | 4.4 x 44.5 x 56.4 |
| C9300-48H | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300-24S | 4.3 x 44.4 x 44.9 | 4.3 x 44.4 x 48.8 | 4.3 x 44.4 x 52.6 |
| C9300-48S | 4.3 x 44.4 x 44.9 | 4.3 x 44.4 x 48.8 | 4.3 x 44.4 x 52.6 |
| C9300LM-48UX-4Y | 4.3 x 44.4 x 33.1 | 4.3 x 44.4 x 33.4 | 4.3 x 44.4 x 32.5 (w/ DC power supply) |
| C9300LM-48U-4Y | 4.3 x 44.4 x 33.1 | 4.3 x 44.4 x 33.4 | 4.3 x 44.4 x 32.5 (w/ DC power supply) |
| C9300LM-24U-4Y | 4.3 x 44.4 x 33.1 | 4.3 x 44.4 x 33.4 | 4.3 x 44.4 x 32.5 (w/ DC power supply) |
| C9300LM-48T-4Y | 4.3 x 44.4 x 27.5 | 4.3 x 44.4 x 27.5 | 4.3 x 44.4 x 29.7 (w/ DC power supply) |
| C9300L-24T-4G | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-24T-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-48T-4G | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-48T-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-24P-4G | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-24P-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |

| General specifications | | | |
|------------------------------------|-------------------|-------------------|-------------------|
| C9300L-48P-4G | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-48P-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 44.9 | 4.4 x 44.5 x 48.8 |
| C9300L-48PF-4G | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300L-48PF-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300L-24UXG-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300L-24UXG-2Q | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300L-48UXG-4X | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| C9300L-48UXG-2Q | 4.4 x 44.5 x 40.9 | 4.4 x 44.5 x 48.8 | 4.4 x 44.5 x 48.8 |
| Weight (with default power supply) | | | |
| Model | Pounds | Kilograms | |
| C9300X-48HX | 14.6 | 6.62 | |
| C9300X-48TX | 14.6 | 6.62 | |
| C9300X-48HXN | 14.2 | 6.44 | |
| C9300X-24HX | 13.8 | 6.25 | |
| C9300X-12Y | 15.0 | 6.80 | |
| C9300X-24Y | 16.2 | 7.35 | |
| C9300-24T | 16.03 | 7.27 | |
| C9300-24P | 16.33 | 7.4 | |
| C9300-24U | 16.63 | 7.54 | |
| C9300-24UX | 18.18 | 8.25 | |
| C9300-24UB | 16.63 | 7.54 | |
| C9300-24UXB | 18.18 | 8.25 | |
| C9300-24H | 16.63 | 7.54 | |
| C9300-48T | 16.43 | 7.45 | |
| C9300-48P | 16.73 | 7.59 | |

| General specifications | | |
|------------------------|-------|------|
| C9300-48U | 17.03 | 7.72 |
| C9300-48UXM | 20.50 | 9.34 |
| C9300-48UN | 20.05 | 9.09 |
| C9300-48UB | 17.03 | 7.72 |
| C9300-48H | 17.03 | 7.72 |
| C9300-24S | 16.84 | 7.64 |
| C9300-48S | 17.32 | 7.86 |
| C9300LM-48UX-4Y | 12 | 5.45 |
| C9300LM-48U-4Y | 12 | 5.45 |
| C9300LM-24U-4Y | 11.5 | 5.21 |
| C9300LM-48T-4Y | 11 | 4.99 |
| C9300L-24T-4G | 14.93 | 6.78 |
| C9300L-24T-4X | 14.93 | 6.78 |
| C9300L-48T-4G | 15.41 | 7.0 |
| C9300L-48T-4X | 15.41 | 7.0 |
| C9300L-24P-4G | 14.99 | 6.81 |
| C9300L-24P-4X | 14.99 | 6.81 |
| C9300L-48P-4G | 15.46 | 7.03 |
| C9300L-48P-4X | 15.46 | 7.03 |
| C9300L-48PF-4G | 15.48 | 7.03 |
| C9300L-48PF-4X | 15.48 | 7.03 |
| C9300L-24UXG-4X | 15.73 | 7.13 |
| C9300L-24UXG-2Q | 16.01 | 7.26 |
| C9300L-48UXG-4X | 16.86 | 7.65 |
| C9300L-48UXG-2Q | 16.86 | 7.65 |

| General specifications | |
|------------------------------------|---------|
| Mean time between failures (hours) | |
| C9300X-48HX | 185,420 |
| C9300X-48TX | 206,480 |
| C9300X-48HXN | 188,200 |
| C9300X-24HX | 220,250 |
| C9300X-12Y | 265,650 |
| C9300X-24Y | 249,350 |
| C9300-24T | 314,790 |
| C9300-24P | 299,000 |
| C9300-24U | 238,410 |
| C9300-24UX | 214,760 |
| C9300-24UB | 354,300 |
| C9300-24UXB | 288.520 |
| C9300-24H | 238,410 |
| C9300-48T | 305,870 |
| C9300-48P | 277,770 |
| C9300-48U | 227,410 |
| C9300-48UXM | 202,160 |
| C9300-48UN | 198,647 |
| C9300-48UB | 337,170 |
| C9300-48H | 227,410 |
| C9300-24S | 284,130 |
| C9300-48S | 281,920 |
| C9300L-24T-4G | 395,800 |
| C9300L-24T-4X | 387,700 |

| General specifications | |
|-------------------------|---|
| C9300L-48T-4G | 387,860 |
| C9300L-48T-4X | 380,080 |
| C9300L-24P-4G | 346,940 |
| C9300L-24P-4X | 340,710 |
| C9300L-48P-4G | 314,140 |
| C9300L-48P-4X | 309,020 |
| C9300L-48PF-4G | 303,660 |
| C9300L-48PF-4X | 298,880 |
| C9300L-24UXG-4X | 332,640 |
| C9300L-24UXG-2Q | 291,670 |
| C9300L-48UXG-4X | 273,820 |
| C9300L-48UXG-2Q | 275,010 |
| C9300LM-24U-4Y | 357,350 |
| C9300LM-48U-4Y | 304,970 |
| C9300LM-48T-4Y | 408,710 |
| C9300LM-48UXG-4Y | 292,410 |
| PWR-C1-350WAC-P | 1,335,012 (ranges from 1.3 million to 3.1 million, depending on temperature, input voltage, and vendor) |
| PWR-C1-715WAC-P | 1,054,881 (ranges from 1.05 million to 2.6 million, depending on temperature, input voltage, and vendor) |
| PWR-C1-1100WAC-P | 1,217,904 (ranges from 1.2 million to 2.8 million, depending on temperature, input voltage, and vendor) (investigating an anomaly in MTBF data received from 1 Power Supply vendor – Artesyn) |
| PWR-C1-1900WAC-P | |
| PWR-C1-715WDC | 1,812,103 (-48V input at 40C and vendor Delta) |
| PWR-C6-600WAC | 1,600,060 |
| PWR-C6-1000WAC | 1,600,060 |

| General specifications | |
|--|---|
| PWR-C6-715WDC | 1,712,103 |
| C9300-NM-2Q | 10,778,230 |
| C9300-NM-2Y | 7,568,820 |
| C9300-NM-4G | 8,953,570 |
| C9300-NM-4M | 10,549,060 |
| C9300-NM-8X | 7,151,930 |
| C9300X-NM-8Y | |
| C9300X-NM-2C | |
| FAN-T2 | 4,521,330 |
| Environmental ranges | |
| Acoustic noise | With AC power supply (with 24 PoE+ ports loaded for C9300 SKUs) |
| Measured per ISO 7779 and declared per ISO 9296 | <ul style="list-style-type: none"> • LpA: 45 dB typical, 48 dB max • LwA: 5.6B typical, 5.9B max |
| Bystander positions operating to an ambient temperature of 25°C | With AC power supply (with half the number of PoE+ ports loaded for C9300L SKUs) <ul style="list-style-type: none"> • LpA: 44 dB typical, 47 dB max • LwA: 5.5B typical, 5.8B max <p>Typical: Noise emission for a typical configuration</p> <p>Maximum: Statistical maximum to account for variation in production</p> |

Connectors

Table 19 shows the supported connectors for the Cisco Catalyst 9300 Series.

Table 19. Connectors

| | |
|------------------------|---|
| Connectors and cabling | <ul style="list-style-type: none"> 1000BASE-T ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling Multigigabit-T ports: RJ-45 connectors, 4-pair Cat 5E, Cat 6, Cat 6A UTP cabling 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling SFP transceivers: LC fiber connectors (single-mode or multimode fiber) SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) QSFP+ transceivers: MPO and LC fiber connectors (single-mode or multimode fiber) QSFP+ connector SFP+ connector Cisco StackWise stacking ports: Copper-based Cisco StackWise cabling Cisco StackPower: Cisco proprietary power stacking cables Ethernet management port: RJ-45 connectors, 4-pair Cat 5 UTP cabling Management console port: RJ-45-to-DB9 cable for PC connections |
| Power connectors | <ul style="list-style-type: none"> Customers can provide power to a switch by using the internal power at the back of the switch Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 (115 for 1100WAC) and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet |

For the latest Cisco transceiver module compatibility information, refer to <https://www.cisco.com/c/en/us/support/interfaces-modules/transceiver-modules/products-device-support-tables-list.html>.

Management and standards support

Table 20 shows management and standards support for the Cisco Catalyst 9300 Series.

Table 20. Management and standards support*

| Description | Specification |
|-------------------|-------------------------------------|
| Management | BRIDGE-MIB |
| | CISCO-BRIDGE-EXT-MIB |
| | CISCO-BULK-FILE-MIB |
| | CISCO-CABLE-DIAG-MIB |
| | CISCO-CALLHOME-MIB |
| | CISCO-CEF-MIB |
| | CISCO-CIRCUIT-INTERFACE-MIB |
| | CISCO-CONFIG-COPY-MIB |
| | CISCO-CONFIG-MAN-MIB |
| | CISCO-DEVICE-LOCATION-MIB |
| | CISCO-DHCP-SNOOPING-MIB |
| | CISCO-EIGRP-MIB |
| | CISCO-EMBEDDED-EVENT-MGR-MIB |
| | CISCO-ENTITY-FRU-CONTROL-MIB |
| | CISCO-ENTITY-SENSOR-MIB |
| | CISCO-ENTITY-VENDORTYPE-OID-MIB |
| | CISCO-ERR-DISABLE-MIB |
| | CISCO-FLASH-MIB |
| | CISCO-FLOW-MONITOR-MIB |
| | CISCO-FTP-CLIENT-MIB |
| | CISCO-HSRP-EXT-MIB |
| | CISCO-HSRP-MIB |
| | CISCO-IETF-BFD-MIB |
| | CISCO-IETF-PPVPN-MPLS-VPN-MIB |
| | CISCO-IETF-PW-MPLS-MIB |
| | CISCO-IF-EXTENSION-MIB |
| | CISCO-PORT-STORM-CONTROL-MIB |
| | CISCO-POWER-ETHERNET-EXT-MIB |
| | CISCO-PRIVATE-VLAN-MIB |
| | CISCO-PROCESS-MIB |
| | CISCO-PRODUCTS-MIB |
| | CISCO-RF-MIB |
| | CISCO-RTP-METRICS-MIB |
| | CISCO-RTTMON-ICMP-MIB |
| | CISCO-STACKWISE-MIB |
| | CISCO-STP-EXTENSIONS-MIB |
| | CISCO-SYSLOG-MIB |
| | CISCO-TCP-MIB |
| | CISCO-UDLDP-MIB |
| | CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB |
| | ENTITY-MIB |
| | HC-ALARM-MIB |
| | HC-RMON-MIB |
| | IEEE8023-LAG-MIB |
| | IF-MIB |
| | IP-FORWARD-MIB |
| | IP-MIB |
| | LLDP-EXT-MED-MIB |
| | LLDP-MIB |
| | MAU-MIB |
| | MPLS-L3VPN-STD-MIB |
| | MPLS-LSR-STD-MIB |

| Description | Specification | |
|-----------------------------------|--------------------------|--|
| CISCO-IGMP-FILTER-MIB | MPLS-VPN-MIB | |
| CISCO-IMAGE-LICENSE-MGMT-MIB | OLD-CISCO-CHASSIS-MIB | |
| CISCO-IMAGE-MIB | OLD-CISCO-CPU-MIB | |
| CISCO-IP-CBR-METRICS-MIB | OLD-CISCO-INTERFACES-MIB | |
| CISCO-IP-STAT-MIB | OLD-CISCO-IP-MIB | |
| CISCO-IP-TAP-MIB | OLD-CISCO-MEMORY-MIB | |
| CISCO-IP-URPF-MIB | OLD-CISCO-SYS-MIB | |
| CISCO-IPSEC-FLOW-MONITOR-MIB | OLD-CISCO-TCP-MIB | |
| CISCO-IPSEC-MIB | OLD-CISCO-TS-MIB | |
| CISCO-IPSEC-PROVISIONING-MIB | POWER-ETHERNET-MIB | |
| CISCO-IPSLA-AUTOMEASURE-MIB | RFC1213-MIB | |
| CISCO-IPSLA-ECHO-MIB | RMON-MIB | |
| CISCO-IPSLA-JITTER-MIB | RMON2-MIB | |
| CISCO-L2-CONTROL-MIB | SMON-MIB | |
| CISCO-L2L3-INTERFACE-CONFIG-MIB | SNMPv2-MIB | |
| CISCO-LAG-MIB | SONET-MIB | |
| CISCO-LICENSE-MGMT-MIB | TCP-MIB | |
| CISCO-LOCAL-AUTH-USER-MIB | UDP-MIB | |
| CISCO-MAC-NOTIFICATION-MIB | | |
| CISCO-MDI-METRICS-MIB | | |
| CISCO-MEDIA-METRICS-MIB | | |
| CISCO-MEMORY-POOL-MIB | | |
| CISCO-MPLS-LSR-EXT-STD-MIB | | |
| CISCO-NBAR-PROTOCOL-DISCOVERY-MIB | | |
| CISCO-NHRP-EXT-MIB | | |
| CISCO-NTP-MIB | | |
| CISCO-PAGP-MIB | | |
| CISCO-PORT-SECURITY-MIB | | |

| Description | Specification | |
|------------------|--|--|
| Standards | IEEE 802.1s IEEE 802.1w IEEE 802.1x IEEE 802.1x-Rev IEEE 802.3ad IEEE 802.3ae IEEE 802.3af IEEE 802.3at IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports IEEE 802.1D Spanning Tree Protocol IEEE 802.1p CoS prioritization IEEE 802.1Q VLAN IEEE 802.3 10BASE-T specification IEEE 802.3u 100BASE-TX specification IEEE 802.3ab 1000BASE-T specification IEEE 802.3z 1000BASE-X specification IEEE 802.3bz Multirate 2.5G/5G specification IEEE 802.3an 10G BASE-T specification | RMON I and II standards SNMPv1, v2c, and v3 |

Power supply specifications

Table 21 lists the power specifications for the Cisco Catalyst 9300 Series based on the kind of power supply used.

Table 21. Power specifications

| Description | Specification | | | |
|--|---|--|--|---|
| | PWR-C1-1100WAC** | PWR-C1-715WAC** | PWR-C1-350WAC** | PWR-C1-715WDC |
| Power supply rated maximum | 1100W | 715W | 350W | 715W |
| Total output BTU (note: 1000 BTU/hr = 293W) | 3793 BTU/hr, 1100W | 2465 BTU/hr, 715W | 1207 BTU/hr, 350W | 2440 BTU/hr |
| Input-voltage range and frequency | 115V to 240 VAC, 50 to 60 Hz | 100 to 240 VAC, 50 to 60 Hz | 100 to 240 VAC, 50 to 60 Hz | -36V to -72 VDC |
| Input current | 12-6A | 10-5A | 4-2A | 24-12A |
| Output ratings | -56V at 19.64A | -56V at 12.8A | -56V at 6.25A | -56V at 12.8A |
| Output holdup time | 10 ms minimum at 100VAC | 16.7 ms minimum at 100VAC | 16.7 ms minimum at 100VAC | 2 ms minimum at -48Vdc |
| Power-supply input receptacles | IEC 320-C16 (IEC60320-C16) | IEC 320-C16 (IEC60320-C16) | IEC 320-C14 (IEC60320-C14) | Right angle barrier style terminal block |
| Power cord rating | 15A | 15A | 10A | 25A@100VDC |
| Physical specifications | (H x W x D): 1.58 x 3.25 x 13.7 in Weight: 3.1 lb (1.4 kg) | (H x W x D): 1.58 x 3.25 x 12.20 in Weight: 2.6 lb (1.2 kg) | (H x W x D): 1.58 x 3.25 x 12.20 in Weight: 2.3 lb (1.2 kg) | (H x W x D): 1.58 x 3.25 x 12.20 in Weight: 2.2 lb (1kg) |

** These power supply options will not be available for purchase with the C9300 in CCW starting Q2 FY21.

Table 22. Power specifications – Platinum-rated power supplies

| Description | Specification | | | | | | | |
|--|---|--------------------------------|---|-------------------------------|--|--|--|--|
| | *PWR-C1-1900WAC-P | | *PWR-C1-1100 WAC-P | *PWR-C1-715WAC-P | PWR-C1-350WAC-P | | | |
| Power supply rated maximum output power | 1500W with 115V | 1900W with 230V | 1100W | 715W | 350W | | | |
| Total output BTU (note: 1000 BTU/hr = 293W) | 5118 BTU/hr, with 115V | 6483 BTU/hr, with 230V | 3754 BTU/hr, 1100W | 2440 BTU/hr, 715W | 1194 BTU/hr, 350W | | | |
| Input-voltage range and frequency | 115V to 127 VAC 50 to 60 Hz | 200V to 240 VAC 55 to 60 Hz | 115V to 240 VAC 50 to 60 Hz | 100 to 240 VAC 50 to 60 Hz | 100 to 240 VAC 50 to 60 Hz | | | |
| Input current | 16A maximum | 12A maximum | 12-6A | 10-5A | 4-2A | | | |
| Output ratings | -56V at 26.78A | -56V at 33.92A | -56V at 19.64A | -56V at 12.8A | -56V at 6.25A | | | |
| Output holdup time | 20 ms minimum at 100VAC | 20 ms minimum at 100VAC | 20 ms minimum at 100VAC | 20 ms minimum at 100VAC | 20 ms minimum at 100VAC | | | |
| Power-supply input receptacles | IEC 320-C22 | IEC 320-C22 | IEC 320-C16 (IEC60320-C16) | IEC 320-C16 (IEC60320-C16) | IEC 320-C14 (IEC60320-C14) | | | |
| Power cord rating | 20A | 16A | 15A | 15A | 10A | | | |
| Physical specifications | (H x W x D): 1.58 x 3.25 x 13.7 in Weight: xxx lb (x.x kg) | | (H x W x D): 1.58 x 3.25 x 13.7 in Weight: 3.1 lb (1.4 kg) | | (H x W x D): 1.58 x 3.25 x 12.20 in Weight: 2.6 lb (1.2 kg) | | (H x W x D): 1.58 x 3.25 x 12.20 in Weight: 2.3 lb (1.2 kg) | |

| Description | Specification |
|---|---|
| Operating temperature | <p>Normal operating temperature* and altitudes:</p> <ul style="list-style-type: none"> -5°C to +45°C, up to 5000 feet (1500m) -5°C to +40°C, up to 10,000 feet (3000m) -5°C to +35°C, up to 15,000 feet (5000m) <p>* Minimum ambient temperature for cold start is 32°F (0°C)</p> <p>Short-term* exceptional conditions:</p> <ul style="list-style-type: none"> -5°C to +55°C, at sea level -5°C to +50°C, up to 5000 feet (1500m) -5°C to +45°C, up to 10,000 feet (3000m) -5°C to +35°C, up to 15,000 feet (5000m) <p>*Not more than following in 1-year period: 96 consecutive hours, or 360 hours total, or 15 occurrences</p> |
| Storage temperature | 40° to 158°F (-40° to 70°C) |
| Relative humidity operating and nonoperating noncondensing | 5% to 90% noncondensing |
| Altitude | 10,000 ft. (3000 meters), up to 45°C |

| Description | Specification |
|-------------------------------|---|
| EMI and EMC compliance | FCC Part 15 (CFR 47) Class A ICES-003 Class A EN 55032 Class A CISPR 32 Class A AS/NZS 3548 Class A BSMI Class A (AC input models only) VCCI Class A EN 55024, EN300386, EN 61000-3-2, EN 61000-3-3 EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 |
| Safety compliance | |
| LED indicators | “AC OK”: Input power to the power supply is OK “PS OK”: Output power from the power supply is OK |

¹PWR-C1-1900WAC-UP is available as an PSU upgrade option to 1900W primary PSU

²PWR-C1-1100WAC-UP is available as an PSU upgrade option to 1100W primary PSU

³PWR-C1-715WAC-UP is available as an PSU upgrade option to 715W primary PSU

Power consumption of standalone Catalyst 9300 Series Switches

Table 23 shows the power consumption of standalone Cisco Catalyst 9300 Series Switches based on Alliance for Telecommunications Industry Solutions (ATIS) testing using Internet Mix (IMIX) distribution stream traffic, with input voltage of 115VAC at 60 Hz and no PoE loading. The values given are the maximum possible power consumption numbers under the respective test scenarios.

Table 23. Power consumption of standalone Catalyst 9300 Series Switches (tested on IOS XE Release 16.5.1)

| | | | | Measured P(W) | | | | | | | | | | | | | | | | |
|------------------|-------------|---------------|--------|-------------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|---------------------|---------|-----------------------|-------|--------|--------|--|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | | |
| SKU | FEP | Uplink | Input | 0.01%/EEE | 10% | 30% | 50% | 100% | 0.01%/EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% | |
| C9300-24P | 715W | Not Installed | 115Vac | 82.6 | 91 | 93.4 | 93.7 | 93.9 | 82 | 94.8 | 95.9 | 96.1 | 96.6 | 93.7 | 82.9 | 202.3 | 325.8 | 527.5 | 579 | |
| | | | 230Vac | 81.6 | 89.8 | 92.2 | 92.4 | 92.6 | 81.7 | 93.7 | 94.6 | 94.7 | 95.2 | 92.6 | 82.3 | 199 | 318.2 | 510.6 | 559.9 | |
| | C9300-NM-4G | 115Vac | 87.5 | 93 | 96.5 | 97.7 | 98.5 | 89.8 | 99.5 | 102.4 | 103 | 103.4 | 98.9 | 85.4 | 211.4 | 334.5 | 537.8 | 585.7 | | |
| | | 230Vac | 86.1 | 91.3 | 94.4 | 95.8 | 96.6 | 88.9 | 98.5 | 101.5 | 101.9 | 102.4 | 97.9 | 84.6 | 207.9 | 328 | 520.3 | 568.2 | | |
| | C9300-NM-4M | 115Vac | 90.4 | 100.4 | 101.6 | 101.9 | 102.3 | 94.1 | 106.8 | 107.8 | 108.2 | 109.1 | 105.7 | 90.8 | 214.9 | 337.9 | 539.4 | 590.8 | | |
| | | 230Vac | 89.4 | 99.1 | 100.3 | 100.5 | 100.7 | 92.8 | 106.1 | 106.5 | 106.9 | 107.8 | 104.9 | 89.6 | 211 | 329.7 | 522.2 | 571 | | |
| | C9300-NM-2Q | 115Vac | 88.1 | 98.6 | 99.5 | 99.6 | 99.9 | 91.1 | 104.4 | 105.2 | 105.6 | 106.5 | 103.3 | 88.4 | 212.2 | 335.2 | 536.2 | 586.5 | | |
| | | 230Vac | 87.1 | 97.2 | 98.1 | 98.3 | 98.8 | 90 | 103.3 | 103.9 | 104.3 | 105.2 | 102.1 | 87.5 | 208 | 326.8 | 519.3 | 567.6 | | |
| C9300-24S | 715W | C9300-NM-4G | 115Vac | 90 | 99.4 | 101 | 101.2 | 101.6 | 94.2 | 107.1 | 107.9 | 108.3 | 109.2 | 106 | 88.7 | 215.3 | 339.6 | 541.4 | 591.3 | |
| | | | 230Vac | 89 | 97.9 | 99.8 | 100 | 100.5 | 93.1 | 105.8 | 106.7 | 107.1 | 108.1 | 104.8 | 87.8 | 211.7 | 331.9 | 524.2 | 572.3 | |
| | C9300-NM-2Q | 115Vac | 101.9 | 104.8 | 105.3 | 105.4 | 106.1 | 117.6 | 120.5 | 121.1 | 121.7 | 123.1 | 120.47 | 85.4 | | | | | | |
| | | 230Vac | 100.2 | 103 | 103.5 | 103.7 | 104.3 | 115.7 | 118.7 | 119.3 | 119.5 | 120.7 | 118.6 | 84.4 | | | | | | |
| | C9300-NM-8X | 115Vac | 104.6 | 107.4 | 108.3 | 108.5 | 109.1 | 121.3 | 124.1 | 124.8 | 125.4 | 126.4 | 124.05 | 85.9 | | | | | | |
| | | 230Vac | 103.4 | 105.7 | 106.4 | 106.7 | 107 | 119.4 | 122.5 | 122.9 | 123.2 | 124.3 | 122.37 | 84.6 | | | | | | |
| | C9300-NM-4M | 115Vac | 99.15 | 101.8 | 102.5 | 102.7 | 103.3 | 116.6 | 119.7 | 120.3 | 121 | 122.2 | 119.64 | 82.1 | | | | | | |
| | | 230Vac | 97.64 | 100.3 | 100.8 | 101 | 101.6 | 115.4 | 118.3 | 118.9 | 119.3 | 120.2 | 118.2 | 81.2 | | | | | | |
| C9300-24T | 350W | C9300-NM-2Y | 115Vac | 101.24 | 104.48 | 104.75 | 104.81 | 105.42 | 116.4 | 119.01 | 120.31 | 120.58 | 121.31 | 118.98 | 85.02 | | | | | |
| | | | 230Vac | 99.17 | 102.36 | 102.63 | 102.85 | 103.57 | 114.1 | 117.42 | 118 | 118.46 | 119.62 | 117.31 | 83.03 | | | | | |
| | C9300-NM-4M | Not Installed | 115Vac | 77.7 | 86.1 | 89.1 | 89.5 | 89.7 | 77.5 | 91 | 91.7 | 91.9 | 92.5 | 89.8 | 78.1 | | | | | |
| | | | 230Vac | 77.4 | 85.4 | 88.5 | 88.7 | 88.8 | 77 | 89.8 | 90.7 | 90.9 | 91.3 | 88.7 | 77.7 | | | | | |
| | C9300-NM-8X | 115Vac | 82.5 | 88.4 | 92.1 | 93.3 | 94.1 | 85.9 | 96 | 98.9 | 99.7 | 100 | 95.4 | 81.2 | | | | | | |
| | | 230Vac | 81.8 | 87.6 | 90.4 | 92 | 92.9 | 84.9 | 94.2 | 96.9 | 97.9 | 98.3 | 93.7 | 80.5 | | | | | | |
| | C9300-NM-2Q | 115Vac | 86.4 | 96.3 | 98 | 98.2 | 98.7 | 90.2 | 103.7 | 104.5 | 104.9 | 105.9 | 102.6 | 87 | | | | | | |
| | | 230Vac | 85.4 | 95.1 | 96.6 | 96.8 | 97.3 | 89.1 | 102.1 | 102.9 | 103.3 | 104.2 | 101 | 86 | | | | | | |
| C9300-24U | 1100W | C9300-NM-4G | 115Vac | 84 | 94.7 | 95.7 | 95.9 | 96.1 | 87.1 | 101.1 | 101.7 | 102.1 | 103 | 99.9 | 83.9 | | | | | |
| | | | 230Vac | 83.2 | 93.6 | 94.4 | 94.6 | 95.1 | 86.2 | 99.2 | 100.1 | 100.5 | 101.4 | 98.1 | 83.2 | | | | | |
| | C9300-NM-8X | 115Vac | 86.3 | 95.6 | 97.5 | 97.8 | 98.2 | 90.7 | 103.9 | 104.7 | 105.1 | 106.1 | 102.8 | 85 | | | | | | |
| | | 230Vac | 85.4 | 94.5 | 96.2 | 96.4 | 97 | 89.7 | 102.2 | 103.2 | 103.6 | 104.5 | 101.2 | 84.3 | | | | | | |
| | C9300-NM-4M | Not Installed | 115Vac | 87.4 | 95.9 | 99 | 99.2 | 99.4 | 87 | 100.8 | 101.5 | 101.8 | 102.3 | 99.6 | 87.8 | 313.7 | 547.9 | 940.3 | 1041.4 | |
| | | | 230Vac | 85.9 | 94.7 | 97.3 | 97.6 | 97.8 | 85.5 | 98 | 99.6 | 99.8 | 100.3 | 96.9 | 86.4 | 306.2 | 529.1 | 895.6 | 988.7 | |
| | C9300-NM-2Q | 115Vac | 92.2 | 97.8 | 101.2 | 102.7 | 103.6 | 95.4 | 105.2 | 108.3 | 109 | 109.4 | 104.6 | 94.4 | 321 | 554 | 943.5 | 1045.5 | | |
| | | 230Vac | 90.6 | 96.1 | 99.4 | 100.9 | 101.7 | 93.7 | 103.4 | 106.4 | 107.2 | 107.6 | 102.8 | 93.2 | 313.5 | 536.6 | 901.5 | 994.6 | | |
| | C9300-NM-8X | 115Vac | 96 | 106.2 | 107.6 | 107.8 | 108.4 | 99.7 | 113.4 | 114.2 | 114.6 | 115.6 | 112.3 | 96.1 | 325.7 | 559 | 950.6 | 1053 | | |
| | | 230Vac | 94.3 | 104.5 | 105.8 | 106.1 | 106.6 | 97.9 | 112.1 | 112.8 | 113.2 | 114 | 110.8 | 94.4 | 318.3 | 541.9 | 906.2 | 997.8 | | |
| | C9300-NM-2P | 115Vac | 93.4 | 103.9 | 104.8 | 105 | 105.5 | 96.5 | 110.4 | 111.3 | 111.5 | 112.4 | 109.2 | 93.4 | 323.2 | 555.8 | 946.7 | 1048.6 | | |
| | | 230Vac | 91.8 | 102 | 103 | 103.3 | 103.7 | 94.8 | 108.7 | 109.4 | 109.8 | 110.6 | 107.5 | 91.8 | 314.9 | 538.4 | 902.2 | 994.5 | | |
| | C9300-NM-8X | 115Vac | 95.8 | 105.4 | 107.3 | 107.6 | 108.1 | 100.2 | 114 | 114.8 | 115.2 | 116.2 | 112.8 | 94.4 | 324.4 | 557.7 | 946.6 | 1049 | | |
| | | 230Vac | 94 | 103 | 105.1 | 105.4 | 106 | 98.4 | 112 | 113.1 | 113.5 | 114.5 | 110.9 | 93.2 | 317.8 | 541.8 | 907.7 | 999.1 | | |

| | | | | Measured P(W) | | | | | | | | | | | | | | | |
|--------------------|-------|---------------|--------|-------------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|---------------------|---------|-----------------------|-------|-------|--------|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | |
| SKU | FEP | Uplink | Input | 0.01%/ EEE | 10% | 30% | 50% | 100% | 0.01%/ EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% |
| C9300-24UB | 1100W | Not Installed | 115Vac | 87.4 | 95.9 | 99 | 99.2 | 99.4 | 87 | 100.8 | 101.5 | 101.8 | 102.3 | 99.6 | 87.8 | 313.7 | 547.9 | 940.3 | 1041.4 |
| | | | 230Vac | 85.9 | 94.7 | 97.3 | 97.6 | 97.8 | 85.5 | 98 | 99.6 | 99.8 | 100.3 | 96.9 | 86.4 | 306.2 | 529.1 | 895.6 | 988.7 |
| | | C9300-NM-4G | 115Vac | 92.2 | 97.8 | 101.2 | 102.7 | 103.6 | 95.4 | 105.2 | 108.3 | 109 | 109.4 | 104.6 | 94.4 | 321 | 554 | 943.5 | 1045.5 |
| | | | 230Vac | 90.6 | 96.1 | 99.4 | 100.9 | 101.7 | 93.7 | 103.4 | 106.4 | 107.2 | 107.6 | 102.8 | 93.2 | 313.5 | 536.6 | 901.5 | 994.6 |
| | | C9300-NM-4M | 115Vac | 96 | 106.2 | 107.6 | 107.8 | 108.4 | 99.7 | 113.4 | 114.2 | 114.6 | 115.6 | 112.3 | 96.1 | 325.7 | 559 | 950.6 | 1053 |
| | | | 230Vac | 94.3 | 104.5 | 105.8 | 106.1 | 106.6 | 97.9 | 112.1 | 112.8 | 113.2 | 114 | 110.8 | 94.4 | 318.3 | 541.9 | 906.2 | 997.8 |
| C9300-24NM | 1100W | C9300-NM-2Q | 115Vac | 93.4 | 103.9 | 104.8 | 105 | 105.5 | 96.5 | 110.4 | 111.3 | 111.5 | 112.4 | 109.2 | 93.4 | 323.2 | 555.8 | 946.7 | 1048.6 |
| | | | 230Vac | 91.8 | 102 | 103 | 103.3 | 103.7 | 94.8 | 108.7 | 109.4 | 109.8 | 110.6 | 107.5 | 91.8 | 314.9 | 538.4 | 902.2 | 994.5 |
| | | C9300-NM-8X | 115Vac | 95.8 | 105.4 | 107.3 | 107.6 | 108.1 | 100.2 | 114 | 114.8 | 115.2 | 116.2 | 112.8 | 94.4 | 324.4 | 557.7 | 946.6 | 1049 |
| | | | 230Vac | 94 | 103 | 105.1 | 105.4 | 106 | 98.4 | 112 | 113.1 | 113.5 | 114.5 | 110.9 | 93.2 | 317.8 | 541.8 | 907.7 | 999.1 |
| C9300-24UX | 1100W | C9300-NM-8X | 115Vac | 188 | 195.7 | 196.8 | 197.4 | 198.9 | 208.8 | 224.6 | 227 | 228.6 | 232 | 223.8 | 168.6 | 364.2 | 521.6 | 784.3 | 851.4 |
| | | | 230Vac | 184.4 | 192.2 | 192.9 | 193.5 | 195.1 | 204.6 | 220 | 222 | 223.5 | 226.9 | 219.2 | 165.3 | 354.2 | 505 | 749.7 | 810.6 |
| C9300-24UXB | 1100W | C9300-NM-8X | 115Vac | 188 | 195.7 | 196.8 | 197.4 | 198.9 | 208.8 | 224.6 | 227 | 228.6 | 232 | 223.8 | 168.6 | 364.2 | 521.6 | 784.3 | 851.4 |
| C9300-24H | 1100W | Not Installed | 115Vac | 87.4 | 95.9 | 99 | 99.2 | 99.4 | 87 | 100.8 | 101.5 | 101.8 | 102.3 | 99.6 | 87.8 | 313.7 | 547.9 | 940.3 | 1041.4 |
| | | | 230Vac | 85.9 | 94.7 | 97.3 | 97.6 | 97.8 | 85.5 | 98 | 99.6 | 99.8 | 100.3 | 96.9 | 86.4 | 306.2 | 529.1 | 895.6 | 988.7 |
| | | C9300-NM-4G | 115Vac | 92.2 | 97.8 | 101.2 | 102.7 | 103.6 | 95.4 | 105.2 | 108.3 | 109 | 109.4 | 104.6 | 94.4 | 321 | 554 | 943.5 | 1045.5 |
| | | | 230Vac | 90.6 | 96.1 | 99.4 | 100.9 | 101.7 | 93.7 | 103.4 | 106.4 | 107.2 | 107.6 | 102.8 | 93.2 | 313.5 | 536.6 | 901.5 | 994.6 |
| | | C9300-NM-4M | 115Vac | 96 | 106.2 | 107.6 | 107.8 | 108.4 | 99.7 | 113.4 | 114.2 | 114.6 | 115.6 | 112.3 | 96.1 | 325.7 | 559 | 950.6 | 1053 |
| | | | 230Vac | 94.3 | 104.5 | 105.8 | 106.1 | 106.6 | 97.9 | 112.1 | 112.8 | 113.2 | 114 | 110.8 | 94.4 | 318.3 | 541.9 | 906.2 | 997.8 |
| C9300-24NM | 1100W | C9300-NM-2Q | 115Vac | 93.4 | 103.9 | 104.8 | 105 | 105.5 | 96.5 | 110.4 | 111.3 | 111.5 | 112.4 | 109.2 | 93.4 | 323.2 | 555.8 | 946.7 | 1048.6 |
| | | | 230Vac | 91.8 | 102 | 103 | 103.3 | 103.7 | 94.8 | 108.7 | 109.4 | 109.8 | 110.6 | 107.5 | 91.8 | 314.9 | 538.4 | 902.2 | 994.5 |
| | | C9300-NM-8X | 115Vac | 95.8 | 105.4 | 107.3 | 107.6 | 108.1 | 100.2 | 114 | 114.8 | 115.2 | 116.2 | 112.8 | 94.4 | 324.4 | 557.7 | 946.6 | 1049 |
| | | | 230Vac | 94 | 103 | 105.1 | 105.4 | 106 | 98.4 | 112 | 113.1 | 113.5 | 114.5 | 110.9 | 93.2 | 317.8 | 541.8 | 907.7 | 999.1 |
| C9300-48P | 715W | Not Installed | 115Vac | 90.5 | 103.2 | 104.5 | 104.7 | 105.2 | 89.9 | 104.9 | 107.8 | 109.2 | 110.2 | 103.9 | 91.3 | 206.1 | 324.1 | 514.4 | 563.2 |
| | | | 230Vac | 89.4 | 102.2 | 103.4 | 103.6 | 104.1 | 88.9 | 103.7 | 106.9 | 108.4 | 109.3 | 102.7 | 89.9 | 202.9 | 316.9 | 500.6 | 547.5 |
| | | C9300-NM-4G | 115Vac | 95.3 | 103.5 | 106.2 | 108.1 | 108.8 | 98 | 112.1 | 114.9 | 115.9 | 116.2 | 111.1 | 94.3 | 215 | 332.6 | 523.4 | 572.1 |
| | | | 230Vac | 94 | 102.2 | 105.2 | 106.9 | 107.8 | 96.4 | 111.3 | 114.1 | 115.2 | 115.5 | 110.2 | 93.1 | 211.2 | 324.8 | 509.3 | 555.8 |
| | | C9300-NM-4M | 115Vac | 98.7 | 111.5 | 112.3 | 112.7 | 113.5 | 101.5 | 119.7 | 120.5 | 121.2 | 122.8 | 118.2 | 99.2 | 219.1 | 336.5 | 528.8 | 576.6 |
| | | | 230Vac | 97.1 | 110.7 | 111.5 | 111.9 | 112.7 | 100.6 | 119.2 | 120 | 120.7 | 122.3 | 117.6 | 97.9 | 215.5 | 329.5 | 514.2 | 560.5 |
| C9300-24NM | 1100W | C9300-NM-2Q | 115Vac | 96.9 | 110.1 | 110.7 | 111 | 111.9 | 99.3 | 118.2 | 119 | 119.7 | 121.5 | 116.7 | 97.6 | 217.4 | 335.4 | 527.4 | 577.8 |
| | | | 230Vac | 95.6 | 109.2 | 109.7 | 110.1 | 111 | 98.1 | 117.5 | 118.2 | 119 | 120.6 | 115.8 | 96 | 213 | 326.9 | 511.9 | 558.8 |
| | | C9300-NM-8X | 115Vac | 100.5 | 113.4 | 114.2 | 114.6 | 115.5 | 106.4 | 124.5 | 125.4 | 126.1 | 128 | 123 | 99.5 | 215.1 | 334.7 | 520.8 | 568.8 |
| | | | 230Vac | 99.4 | 112.8 | 113.5 | 113.9 | 114.9 | 105.3 | 124 | 124.9 | 125.6 | 127.4 | 122.5 | 98.4 | 212.3 | 327.4 | 507.4 | 553.1 |
| C9300-48S | 715W | C9300-NM-4G | 115Vac | 116.3 | 117 | 118.4 | 119.1 | 119.6 | 149.4 | 151.1 | 152.2 | 152.9 | 153.5 | 151.17 | 93.5 | | | | |
| | | | 230Vac | 114.9 | 115.6 | 116.7 | 117.6 | 118.1 | 147.1 | 148.8 | 150.1 | 150.3 | 150.7 | 148.82 | 92.1 | | | | |
| | | C9300-NM-2Q | 115Vac | 117.7 | 121.3 | 121.8 | 122.4 | 124.1 | 150.6 | 154.1 | 155.3 | 156.3 | 158.6 | 154.2 | 88 | | | | |
| | | | 230Vac | 116.4 | 119.7 | 120.2 | 120.8 | 122.1 | 147.7 | 151.2 | 152.7 | 153.8 | 156.1 | 151.34 | 87.6 | | | | |
| | | C9300-NM-8X | 115Vac | 120.5 | 123.6 | 124.3 | 125.2 | 126 | 152.8 | 156.1 | 157.6 | 158.6 | 160.8 | 156.24 | 87.4 | | | | |
| | | | 230Vac | 119 | 121.9 | 122.9 | 123.4 | 124.4 | 150.2 | 153.9 | 154.9 | 155.8 | 158.3 | 153.97 | 88.9 | | | | |
| C9300-24NM | 1100W | C9300-NM-4M | 115Vac | 118.29 | 121.62 | 122.36 | 122.78 | 124.03 | 153.8 | 157.53 | 158.17 | 159.28 | 161 | 157.5 | 87.53 | | | | |
| | | | 230Vac | 117.15 | 120.62 | 120.89 | 121.3 | 122.35 | 150.2 | 153.61 | 154.6 | 155.58 | 157.86 | 153.69 | 86.48 | | | | |
| | | C9300-NM-2Y | 115Vac | 114.3 | 119.2 | 119.7 | 120.3 | 121.5 | 144.4 | 152 | 152.8 | 153.1 | 156.1 | 151.65 | 85.8 | | | | |
| | | | 230Vac | 112 | 118 | 118.6 | 118.9 | 120.1 | 142.2 | 149.2 | 150.2 | 151 | 153.4 | 148.92 | 83.9 | | | | |

| | | | | Measured P(W) | | | | | | | | | | | | | | | | | | |
|----------------------|-------|---------------|---------------|-------------------|-------------|--------|-------|-------|-------------------|-------|-------|-------|-------|---------------------|---------|-----------------------|--------|--------|--------|--------|--------|--------|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | | | | |
| SKU | FEP | Uplink | Input | 0.01%/ EEE | 10% | 30% | 50% | 100% | 0.01%/ EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% | | | |
| C9300-48T | 350W | Not Installed | 115Vac | 81.5 | 94.9 | 95.7 | 95.9 | 96.4 | 80.8 | 98.6 | 100.2 | 101.3 | 102.3 | 97.2 | 82.2 | | | | | | | |
| | | | 230Vac | 80.5 | 93.7 | 94.6 | 94.8 | 95.3 | 80.1 | 97.3 | 99.5 | 99.9 | 100.8 | 96 | 81.5 | | | | | | | |
| | | | C9300-NM-4G | 115Vac | 86.4 | 94.9 | 97.8 | 99.4 | 100.4 | 89.3 | 104.6 | 107.6 | 108.6 | 108.9 | 103.5 | 85.7 | | | | | | |
| | | | 230Vac | 85.3 | 93.8 | 96.6 | 98.4 | 99.1 | 88.2 | 103.4 | 106.2 | 106.9 | 107.2 | 102.3 | 84.8 | | | | | | | |
| | | | C9300-NM-4M | 115Vac | 89.6 | 103.4 | 104.2 | 104.6 | 105.4 | 93 | 112.7 | 113.5 | 114.1 | 115.7 | 111 | 90.6 | | | | | | |
| | | | 230Vac | 89 | 102 | 102.8 | 103.1 | 103.9 | 91.9 | 111 | 111.8 | 112.4 | 114 | 109.4 | 89.3 | | | | | | | |
| | | | C9300-NM-2Q | 115Vac | 88.3 | 102.4 | 102.9 | 103.3 | 104.2 | 91 | 110.5 | 111.3 | 112.1 | 113.9 | 108.9 | 88.6 | | | | | | |
| C9300-48U | 1100W | Not Installed | 115Vac | 92.1 | 105.2 | 106.1 | 106.5 | 107.4 | 98.6 | 117.6 | 118.4 | 119.1 | 120.9 | 116 | 91 | | | | | | | |
| | | | 230Vac | 91.1 | 103.9 | 104.7 | 105.1 | 106 | 97.3 | 115.8 | 116.6 | 117.3 | 119 | 114.3 | 90 | | | | | | | |
| | | | C9300-NM-4G | 115Vac | 96 | 110.2 | 110.9 | 111.2 | 111.7 | 95.6 | 112.5 | 114.3 | 115.9 | 116.9 | 111.3 | 97 | 315.1 | 544 | 925.9 | 1023 | | |
| | | | 230Vac | 94.8 | 108.5 | 109.2 | 109.4 | 109.9 | 94.2 | 110 | 112.5 | 114.1 | 115 | 108.9 | 95.6 | 308.6 | 529.4 | 889.9 | 978.8 | | | |
| | | | C9300-NM-4M | 115Vac | 97.4 | 105.8 | 109 | 110.7 | 111 | 99.9 | 115.1 | 117.8 | 118.9 | 119.2 | 114 | 96.4 | 319.2 | 547.3 | 928 | 1026.3 | | |
| | | | 230Vac | 95.4 | 103.9 | 107.4 | 108.7 | 110 | 98.8 | 113.4 | 116.2 | 117 | 117.4 | 112.4 | 94.9 | 314.3 | 535.6 | 896 | 984.3 | | | |
| | | | C9300-NM-2Q | 115Vac | 104.4 | 118.5 | 119 | 119.5 | 120.1 | 107.4 | 126.8 | 127.6 | 128.3 | 130 | 125.2 | 104.9 | 326.2 | 556 | 938.6 | 1035.6 | | |
| C9300-48H | 1100W | Not Installed | 115Vac | 102.9 | 117.2 | 117.6 | 118 | 119 | 104.8 | 123.8 | 124.6 | 125.3 | 127 | 122.2 | 102.5 | 324.1 | 552.4 | 934.4 | 1032.6 | | | |
| | | | 230Vac | 101.2 | 114.9 | 115.5 | 115.9 | 117 | 103.9 | 123 | 123.7 | 124.4 | 126.1 | 121.4 | 101.7 | 316.9 | 537.9 | 898.2 | 988.3 | | | |
| | | | C9300-NM-8X | 115Vac | 106.7 | 120.4 | 121.1 | 121.5 | 122.3 | 112.7 | 131.5 | 132.4 | 133 | 134.8 | 130 | 105.7 | 330 | 563.7 | 941.8 | 1043.4 | | |
| | | | 230Vac | 105 | 118.5 | 119.2 | 119.6 | 120.2 | 110.9 | 129.4 | 130.2 | 131 | 132.6 | 127.9 | 104.1 | 324.5 | 549 | 908 | 998.9 | | | |
| | | | C9300-NM-4M | 115Vac | 96 | 110.2 | 110.9 | 111.2 | 111.7 | 95.6 | 112.5 | 114.3 | 115.9 | 116.9 | 111.3 | 97 | 315.1 | 544 | 925.9 | 1023 | | |
| | | | 230Vac | 94.8 | 108.5 | 109.2 | 109.4 | 109.9 | 94.2 | 110 | 112.5 | 114.1 | 115 | 108.9 | 95.6 | 308.6 | 529.4 | 889.9 | 978.8 | | | |
| | | | C9300-NM-2Q | 115Vac | 97.4 | 105.8 | 109 | 110.7 | 111 | 99.9 | 115.1 | 117.8 | 118.9 | 119.2 | 114 | 96.4 | 319.2 | 547.3 | 928 | 1026.3 | | |
| C9300-48UB | 1100W | C9300-NM-8X | 115Vac | 106.7 | 120.4 | 121.1 | 121.5 | 122.3 | 112.7 | 131.5 | 132.4 | 133 | 134.8 | 130 | 105.7 | 330 | 563.7 | 941.8 | 1043.4 | | | |
| | | | 230Vac | 105 | 118.5 | 119.2 | 119.6 | 120.2 | 110.9 | 129.4 | 130.2 | 131 | 132.6 | 127.9 | 104.1 | 324.5 | 549 | 908 | 998.9 | | | |
| | | | C9300-48UN | 1100W | C9300-NM-8X | 115Vac | 172.9 | 176.7 | 178.7 | 179.8 | 181.8 | 193.8 | 199.8 | 201.5 | 203.1 | 206.9 | 199.9 | 159.1 | 357.3 | 525 | 803.9 | 875.1 |
| | | | 230Vac | 171.2 | 174.8 | 176.8 | 178.1 | 179.9 | 191.7 | 197.8 | 199.4 | 201 | 204.7 | 197.9 | 157.9 | 351.5 | 512.1 | 777 | 843.8 | | | |
| | | | C9300-48UXM | 1100W | C9300-NM-8X | 115Vac | 236.2 | 241.4 | 246.6 | 247.8 | 249.6 | 253.2 | 261.5 | 272.4 | 278.5 | 283 | 262.8 | 219.2 | 392.3 | 528.7 | 750.8 | 810.1 |
| | | | 230Vac | 232.2 | 237.4 | 242.5 | 243.7 | 245.6 | 249 | 256.7 | 267.6 | 272.9 | 277.2 | 258 | 215.7 | 382.8 | 515.2 | 728 | 784.7 | | | |
| | | | C9300L-24P-4G | 715W | Integrated | 115Vac | 62.33 | 68.39 | 69.42 | 70.19 | 70.99 | 62.74 | 74.98 | 76.05 | 76.93 | 77.7 | 74.02 | 61.92 | 203.54 | 341.71 | 569.96 | 627.59 |
| C9300L-24P-4X | 715W | Integrated | 115Vac | 60.91 | 67.07 | 68.18 | 68.91 | 69.68 | 61.32 | 73.88 | 74.99 | 75.84 | 76.58 | 72.89 | 60.6 | 199.69 | 334.16 | 552.06 | 606.54 | | | |
| | | | 230Vac | 64.32 | 70.97 | 72.6 | 73.02 | 73.63 | 69.27 | 76.96 | 79.15 | 79.85 | 81 | 76.59 | 64.99 | 207.17 | 343 | 569.93 | 626.15 | | | |
| | | | 115Vac | 64.32 | 70.97 | 72.6 | 73.02 | 73.63 | 69.27 | 76.96 | 79.15 | 79.85 | 81 | 76.59 | 64.99 | 207.17 | 343 | 569.93 | 626.15 | | | |
| | | | 230Vac | 64.09 | 69.9 | 71.75 | 72.28 | 72.92 | 67.8 | 76.12 | 78.34 | 78.78 | 79.91 | 75.67 | 63.7 | 203.04 | 336.39 | 553.25 | 607.02 | | | |
| C9300L-24T-4G | 350W | Integrated | 115Vac | 57.75 | 63.72 | 64.67 | 65.37 | 66.09 | 58.39 | 69.87 | 70.92 | 71.74 | 72.37 | 68.97 | 57.3 | | | | | | | |
| | | | 230Vac | 56.63 | 62.65 | 63.6 | 64.28 | 65.02 | 57.16 | 68.55 | 69.59 | 70.38 | 70.99 | 67.65 | 56.2 | | | | | | | |
| | | | 115Vac | 57.75 | 63.72 | 64.67 | 65.37 | 66.09 | 58.39 | 69.87 | 70.92 | 71.74 | 72.37 | 68.97 | 57.3 | | | | | | | |
| | | | 230Vac | 56.63 | 62.65 | 63.6 | 64.28 | 65.02 | 57.16 | 68.55 | 69.59 | 70.38 | 70.99 | 67.65 | 56.2 | | | | | | | |

| | | | | Measured P(W) | | | | | | | | | | | | | | | |
|----------------|-------|------------|--------|-------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|---------------------|---------|-----------------------|--------|--------|---------|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | |
| SKU | FEP | Uplink | Input | 0.01% / EEE | 10% | 30% | 50% | 100% | 0.01% / EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% |
| C9300L-24T-4X | 350W | Integrated | 115Vac | 58.69 | 65.61 | 67.13 | 67.54 | 68.03 | 59.12 | 71.55 | 73.49 | 74.06 | 75.14 | 70.66 | 58.13 | | | | |
| | | | 230Vac | 57.36 | 64.19 | 65.74 | 65.94 | 66.41 | 57.85 | 70.03 | 71.96 | 72.31 | 73.54 | 69.17 | 56.85 | | | | |
| | | | 115Vac | 58.69 | 65.61 | 67.13 | 67.54 | 68.03 | 59.12 | 71.55 | 73.49 | 74.06 | 75.14 | 70.66 | 58.13 | | | | |
| | | | 230Vac | 57.36 | 64.19 | 65.74 | 65.94 | 66.41 | 57.85 | 70.03 | 71.96 | 72.31 | 73.54 | 69.17 | 56.85 | | | | |
| C9300L-48P-4G | 715W | Integrated | 115Vac | 69.21 | 77.07 | 78.03 | 78.82 | 79.86 | 70.06 | 86.76 | 87.97 | 88.97 | 90.01 | 85.41 | 68.42 | 213.65 | 351.15 | 575.52 | 632.46 |
| | | | 230Vac | 67.9 | 76.03 | 76.95 | 77.76 | 78.78 | 68.72 | 85.61 | 86.74 | 87.62 | 88.63 | 84.22 | 67.16 | 209.87 | 342.56 | 556.81 | 611.08 |
| | | | 115Vac | 69.21 | 77.07 | 78.03 | 78.82 | 79.86 | 70.06 | 86.76 | 87.97 | 88.94 | 90.01 | 85.41 | 68.42 | 213.65 | 351.15 | 575.52 | 632.46 |
| | | | 230Vac | 67.9 | 76.03 | 76.95 | 77.76 | 78.78 | 68.72 | 85.61 | 86.74 | 87.62 | 88.63 | 84.22 | 67.16 | 209.87 | 342.56 | 556.81 | 611.08 |
| C9300L-48P-4X | 715W | Integrated | 115Vac | 68.05 | 78.83 | 80.51 | 80.97 | 81.98 | 69.18 | 90.03 | 91.95 | 92.67 | 94.13 | 88.35 | 68.5 | 203 | 337.4 | 559.3 | 616.7 |
| | | | 230Vac | 66.98 | 77.59 | 79.12 | 79.53 | 80.51 | 67.76 | 88.18 | 90.24 | 90.79 | 92.67 | 86.58 | 67.4 | 200.3 | 331.5 | 545 | 598.6 |
| | | | 115Vac | 68.05 | 78.83 | 80.51 | 80.97 | 81.98 | 69.18 | 90.03 | 91.95 | 92.67 | 94.13 | 88.35 | 68.5 | 203 | 337.4 | 559.3 | 616.7 |
| | | | 230Vac | 66.98 | 77.59 | 79.12 | 79.53 | 80.51 | 67.76 | 88.18 | 90.24 | 90.79 | 92.67 | 86.58 | 67.4 | 200.3 | 331.5 | 545 | 598.6 |
| C9300L-48PF-4G | 1100W | Integrated | 115Vac | 70.41 | 79.73 | 81.33 | 81.58 | 82.62 | 71.36 | 90.17 | 91.32 | 92.11 | 93 | 88.57 | 69.35 | 314.03 | 558.56 | 973.6 | 1082.14 |
| | | | 230Vac | 68.66 | 77.95 | 78.87 | 79.64 | 80.56 | 69.59 | 87.79 | 88.87 | 89.73 | 90.72 | 86.27 | 67.84 | 306.85 | 541.37 | 928.9 | 1027.83 |
| C9300L-48PF-4X | 1100W | Integrated | 115Vac | 69.68 | 80.51 | 82.08 | 82.5 | 83.37 | 71.08 | 91.01 | 93.09 | 94.17 | 96.27 | 89.54 | 69.35 | 310.72 | 552.92 | 965.47 | 1079.44 |
| | | | 230Vac | 68.14 | 78.81 | 80.34 | 80.71 | 81.61 | 69.11 | 88.83 | 90.73 | 91.38 | 93.06 | 87.28 | 67.38 | 305.26 | 539.36 | 924.23 | 1023.56 |
| C9300L-48T-4G | 350W | Integrated | 115Vac | 60.32 | 69.53 | 70.41 | 71.16 | 72 | 61.57 | 79.62 | 80.62 | 81.44 | 82.32 | 78.083 | 59.47 | | | | |
| | | | 230Vac | 59.75 | 68.45 | 69.31 | 70.05 | 70.81 | 60.58 | 78.05 | 79.06 | 79.8 | 80.67 | 76.564 | 59 | | | | |
| | | | 115Vac | 60.32 | 69.53 | 70.41 | 71.16 | 72 | 61.57 | 79.62 | 80.62 | 81.44 | 82.32 | 78.083 | 59.47 | | | | |
| | | | 230Vac | 59.75 | 68.45 | 69.31 | 70.05 | 70.84 | 60.58 | 78.05 | 79.06 | 79.8 | 80.67 | 76.564 | 59 | | | | |
| C9300L-48T-4X | 350W | Integrated | 115Vac | 63.28 | 73.75 | 75.38 | 75.85 | 76.86 | 64.15 | 83.82 | 85.53 | 86.68 | 88.72 | 82.34 | 62.37 | | | | |
| | | | 230Vac | 61.91 | 72.22 | 73.73 | 74.13 | 75.06 | 62.82 | 82.21 | 84.17 | 84.97 | 86.77 | 80.73 | 60.97 | | | | |
| | | | 115Vac | 63.28 | 73.75 | 75.38 | 75.85 | 76.86 | 64.15 | 83.82 | 85.53 | 86.68 | 88.72 | 82.34 | 62.37 | | | | |
| | | | 230Vac | 61.91 | 72.22 | 73.73 | 74.13 | 75.06 | 62.82 | 82.21 | 84.17 | 84.97 | 86.77 | 80.73 | 60.97 | | | | |

| ATIS Testing - 100% | | | | Measured P(W) | | | | | | | | | | | | | | | |
|---------------------|------------|------------|--------|-------------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|---------------------|---------|-----------------------|--------|--------|---------|
| | | | | Half Port Traffic | | | | | Full Port Traffic | | | | | Weighted Average Pw | No Link | PoE Test (No Traffic) | | | |
| SKU | Archer FFP | Uplink | Input | 0.01% / FFF | 10% | 30% | 50% | 100% | 0.01% / FFF | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% |
| C9300L-48UXG-4X | 1100W | Integrated | 115Vac | 107.79 | 133.06 | 135.05 | 136.8 | 137.79 | 108.8 | 156.13 | 159.76 | 160.69 | 163.14 | 152.09 | 107.04 | 332.8 | 520.2 | 835.6 | 918.4 |
| | | | 230Vac | 105.6 | 130.55 | 132.5 | 134.12 | 135.07 | 106.04 | 153.51 | 157.24 | 158.19 | 160.17 | 149.43 | 104.56 | 326 | 505.7 | 801 | 875.3 |
| C9300L-24UXG-4X | 1100W | Integrated | 115Vac | 70.9 | 87.08 | 88.8 | 89.32 | 90.3 | 71.26 | 103.11 | 105.06 | 105.8 | 107.58 | 100.37 | 70.87 | 335.16 | 579.52 | 996.96 | 1108.51 |
| | | | 230Vac | 69.2 | 85.22 | 87.09 | 87.51 | 88.4 | 69.46 | 100.48 | 102.39 | 103.16 | 104.94 | 97.82 | 68.98 | 326.96 | 562.27 | 951.15 | 1049.47 |
| C9300L-48UXG-2Q | 1100W | Integrated | 115Vac | 111.73 | 138.34 | 140.48 | 141.17 | 143.22 | 112.35 | 162.3 | 164.13 | 165.51 | 168.68 | 157.94 | 111.1 | 335.47 | 521.76 | 835.04 | 919.11 |
| | | | 230Vac | 109.53 | 135.16 | 137.16 | 137.89 | 139.68 | 110.21 | 158.42 | 161.05 | 162.32 | 165.66 | 154.32 | 108.86 | 328.17 | 507.54 | 801.77 | 876.22 |
| C9300L-24UXG-2Q | 1100W | Integrated | 115Vac | 104.07 | 121.7 | 122.67 | 123.44 | 125.05 | 104.41 | 139.04 | 140.97 | 142.77 | 145.33 | 136.2 | 103.78 | 325.38 | 526.58 | 861.27 | 949.66 |
| | | | 230Vac | 100.88 | 118.72 | 119.46 | 120.13 | 122.11 | 101.16 | 135.91 | 137.68 | 139.26 | 143.13 | 133.15 | 100.52 | 317.08 | 510.67 | 829.62 | 909.1 |
| C9300LM-48UX-4Y | 1000W | Integrated | 115Vac | 95.1 | 110.7 | 111.6 | 112 | 114.6 | 103 | 123.3 | 124.6 | 126.2 | 130.1 | 121.9 | 87.9 | 323.3 | 543.2 | 913.7 | 1008.3 |
| | | | 230Vac | 93.8 | 108.6 | 109.5 | 110.4 | 112.4 | 101.3 | 120.9 | 122.6 | 124.3 | 128.4 | 119.7 | 86.7 | 317.1 | 530.1 | 879.1 | 965.2 |
| C9300LM-48U-4Y | 1000W | Integrated | 115Vac | 83.5 | 96.2 | 96.9 | 97.3 | 98.3 | 86.4 | 106.3 | 107.3 | 108 | 109.9 | 104.7 | 80.5 | 305.7 | 524 | 892.9 | 986.7 |
| | | | 230Vac | 82.3 | 94.9 | 95.5 | 95.9 | 96.8 | 85.3 | 104.5 | 105.4 | 106.2 | 108 | 103 | 79.5 | 299.5 | 510.7 | 857.4 | 944.4 |
| C9300LM-48T-4Y | 600W | Integrated | 115Vac | 76.1 | 88.8 | 89.4 | 89.8 | 90.7 | 79.2 | 97.9 | 98.8 | 99.6 | 101.4 | 96.4 | 73.3 | | | | |
| | | | 230Vac | 75.2 | 87.4 | 88 | 88.3 | 89.3 | 78.1 | 96.4 | 97.3 | 98.1 | 99.9 | 94.9 | 72.4 | | | | |
| C9300LM-24U-4Y | 600W | Integrated | 115Vac | 77.7 | 84.5 | 86.9 | 87.1 | 87.6 | 80.1 | 91.1 | 93 | 93.4 | 94.3 | 90.3 | 75.3 | 301.6 | 523.6 | 894.9 | 990.9 |
| | | | 230Vac | 76.1 | 83.3 | 85.8 | 86 | 86.5 | 78.6 | 90.1 | 91.9 | 92.3 | 93.3 | 89.2 | 73.8 | 295.6 | 510.2 | 860 | 948.3 |

Table 24. Power consumption of standalone 9300 Series Switches with Platinum-rated power supply (tested on Cisco IOS XE 16.8.1)

| | | | | Measured P(W) | | | | | | | | | | | | | | | |
|--------------------|-----------|---------------|--------|-------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|---------------------|---------|-----------------------|-------|-------|--------|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | |
| SKU | FEP | Uplink | Input | 0.01%/ EEE | 10% | 30% | 50% | 100% | 0.01%/ EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% |
| C9300-24P | 715W-P | C9300-NM-8X | 115Vac | 89.2 | 94.3 | 99 | 100.1 | 100.7 | 92 | 98.9 | 103.5 | 105.9 | 107.1 | 99 | 85.8 | 205.6 | 324.7 | 518.9 | 568.4 |
| | | | 230Vac | 86.7 | 91.8 | 96.4 | 97.5 | 98 | 89.4 | 97.1 | 101.4 | 103.6 | 104.5 | 97 | 84.1 | 201.9 | 318.7 | 507.2 | 554.4 |
| C9300-24T | 350W-P | C9300-NM-8X | 115Vac | 83.1 | 88.2 | 92.9 | 94 | 94.5 | 85.8 | 92.9 | 97.2 | 99.6 | 100.4 | 92.9 | 80.5 | | | | |
| | | | 230Vac | 81.9 | 86.8 | 91.3 | 92.4 | 92.9 | 84.4 | 91.6 | 95.9 | 98.2 | 99 | 91.6 | 79.2 | | | | |
| C9300-24U | 1100W-P | C9300-NM-8X | 115Vac | 90.5 | 95.9 | 100.5 | 101.6 | 102.1 | 93.3 | 100.6 | 104.9 | 107.2 | 108.1 | 100.6 | 87.9 | 319.9 | 549.5 | 935.3 | 1034.1 |
| | | | 230Vac | 88.1 | 93.1 | 97.7 | 98.8 | 99.4 | 92.8 | 98 | 102.4 | 104.6 | 105.5 | 98.2 | 85.4 | 313.4 | 535.5 | 899.7 | 990.3 |
| C9300-24UX | 1100W-P | C9300-NM-8X | 115Vac | 186.8 | 191 | 194.9 | 197.1 | 198.9 | 209 | 215.4 | 227.2 | 230.1 | 233.1 | 216.6 | 165.3 | 367.5 | 522.1 | 776.1 | 842.3 |
| | | | 230Vac | 182.8 | 186.9 | 190.6 | 193 | 194.1 | 205 | 211.2 | 222.7 | 225.5 | 229.8 | 212.5 | 162.7 | 361.1 | 510.2 | 752.3 | 809.9 |
| C9300-24H | 1100W-P | C9300-NM-8X | 115Vac | 90.5 | 95.9 | 100.5 | 101.6 | 102.1 | 93.3 | 100.6 | 104.9 | 107.2 | 108.1 | 100.6 | 87.9 | 319.9 | 549.5 | 935.3 | 1034.1 |
| | | | 230Vac | 88.1 | 93.1 | 97.7 | 98.8 | 99.4 | 92.8 | 98 | 102.4 | 104.6 | 105.5 | 98.2 | 85.4 | 313.4 | 535.5 | 899.7 | 990.3 |
| C9300-48P | 715W-P | C9300-NM-8X | 115Vac | 99.1 | 105.5 | 110.8 | 111.3 | 112.4 | 99.6 | 112.5 | 118.2 | 120.1 | 122.2 | 112.2 | 94.7 | 214.7 | 336.1 | 521.5 | 569.4 |
| | | | 230Vac | 97.3 | 103.7 | 108.9 | 109.4 | 110.4 | 99 | 110.3 | 115.8 | 118.3 | 119.5 | 110.1 | 92.6 | 213.9 | 329.3 | 509.4 | 555 |
| C9300-48T | 350W-P | C9300-NM-8X | 115Vac | 89.8 | 95.4 | 100.4 | 101.1 | 102 | 90.4 | 102.4 | 107.5 | 109.8 | 111.8 | 102.2 | 85.4 | | | | |
| | | | 230Vac | 88.7 | 94.5 | 99.4 | 100.1 | 101 | 88.7 | 101.2 | 106 | 108.1 | 109.9 | 100.8 | 83.9 | | | | |
| C9300-48U | 1100W-P | C9300-NM-8X | 115Vac | 168.9 | 170.6 | 172.4 | 176.6 | 178.5 | 190.8 | 194 | 198.3 | 200.1 | 203.9 | 194.6 | 147.3 | 355.4 | 524.9 | 804.6 | 875.4 |
| | | | 230Vac | 165.7 | 167.3 | 169.2 | 169.9 | 171.5 | 186.5 | 189.6 | 193.9 | 195.7 | 199.8 | 190.3 | 145 | 348.8 | 511.7 | 777.7 | 844.9 |
| C9300-48UN | 1100W-P | C9300-NM-8X | 115Vac | 172.9 | 176.7 | 178.7 | 179.8 | 181.8 | 193.8 | 199.8 | 201.5 | 203.1 | 206.9 | 199.9 | 159.1 | 357.3 | 525 | 803.9 | 875.1 |
| | | | 230Vac | 171.2 | 174.8 | 176.8 | 178.1 | 179.9 | 191.7 | 197.8 | 199.4 | 201 | 204.7 | 197.9 | 157.9 | 351.5 | 512.1 | 777 | 843.8 |
| C9300-48UXM | 1100W-P | C9300-NM-8X | 115Vac | 241 | 248.1 | 254.8 | 256.4 | 258.9 | 260.1 | 269.4 | 281.6 | 286.5 | 291.6 | 270.7 | 225.1 | 394.8 | 531.4 | 755 | 809.5 |
| | | | 230Vac | 237.5 | 243.1 | 249 | 250.3 | 251.1 | 253.9 | 261.8 | 273.9 | 279.2 | 283.6 | 263.2 | 218.5 | 386.8 | 518.1 | 731.3 | 785.5 |
| C9300-48H | 1100W-P | C9300-NM-8X | 115Vac | 168.9 | 170.6 | 172.4 | 176.6 | 178.5 | 190.8 | 194 | 198.3 | 200.1 | 203.9 | 194.6 | 147.3 | 355.4 | 524.9 | 804.6 | 875.4 |
| | | | 230Vac | 165.7 | 167.3 | 169.2 | 169.9 | 171.5 | 186.5 | 189.6 | 193.9 | 195.7 | 199.8 | 190.3 | 145 | 348.8 | 511.7 | 777.7 | 844.9 |
| C9300X-12Y | 715WAC-P | Not Installed | 115Vac | 107.6 | 118.1 | 119.7 | 121.4 | 124.9 | 117 | 126.1 | 128.6 | 131.2 | 137.6 | 126.4 | 99.1 | | | | |
| | | | 230Vac | 105.7 | 112.6 | 113.6 | 114.9 | 118.4 | 114.9 | 123.7 | 126.5 | 129.1 | 135.4 | 124 | 97.1 | | | | |
| C9300X-12Y | 715WAC-P | C9300X-NM-8M | 115Vac | 121.1 | 127.9 | 129.8 | 131.8 | 135.8 | 136.6 | 145.3 | 148.3 | 151.7 | 160.6 | 146 | 108.1 | | | | |
| | | | 230Vac | 117.3 | 126.9 | 128.6 | 130.4 | 134.8 | 136 | 144.9 | 147.9 | 150.6 | 157.1 | 145.2 | 106.1 | | | | |
| C9300X-12Y | 715WAC-P | C9300X-NM-2C | 115Vac | 118.6 | 132.1 | 134.2 | 136.2 | 141.1 | 136.9 | 143 | 146.2 | 148.9 | 156.5 | 143.7 | 107.6 | | | | |
| | | | 230Vac | 116.6 | 129.6 | 131.7 | 133.7 | 138.6 | 134.4 | 141.1 | 144.1 | 147 | 154.1 | 141.8 | 106.4 | | | | |
| C9300X-12Y | 715WAC-P | C9300X-NM-8Y | 115Vac | 119.8 | 128.2 | 129.6 | 131 | 134.4 | 136.3 | 147.6 | 150.5 | 153.2 | 159.9 | 147.7 | 108.1 | | | | |
| | | | 230Vac | 117.5 | 125.6 | 127 | 128.3 | 131.8 | 136 | 144.9 | 147.9 | 150.6 | 157.3 | 145.2 | 106.1 | | | | |
| C9300X-24Y | 715WAC-P | Not Installed | 115Vac | 158.2 | 173.8 | 177.4 | 180.9 | 187.4 | 179 | 197.7 | 204.5 | 209.4 | 221.2 | 198.2 | 142 | | | | |
| | | | 230Vac | 163.1 | 164.9 | 167.9 | 170.6 | 177 | 176.5 | 194.5 | 200.5 | 205.6 | 217.9 | 195.1 | 139.6 | | | | |
| C9300X-24Y | 715WAC-P | C9300X-NM-8M | 115Vac | 173.4 | 183.3 | 186.6 | 189.3 | 196.7 | 199.7 | 219.2 | 226.4 | 232.6 | 247.7 | 220.1 | 151.8 | | | | |
| | | | 230Vac | 169.4 | 179.8 | 183.3 | 186.8 | 194.1 | 194 | 215.4 | 222.4 | 228.4 | 243.3 | 216.1 | 149.4 | | | | |
| C9300X-24Y | 715WAC-P | C9300X-NM-2C | 115Vac | 171.7 | 181.8 | 188.2 | 188.8 | 189.6 | 199.6 | 218 | 226.4 | 232.7 | 247.7 | 219.1 | 151.8 | | | | |
| | | | 230Vac | 170.5 | 179.1 | 184.6 | 185.2 | 186.7 | 196.6 | 214.2 | 222.2 | 228.5 | 243.3 | 215.3 | 149.3 | | | | |
| C9300X-24Y | 715WAC-P | C9300X-NM-8Y | 115Vac | 172.9 | 182 | 185.4 | 188.8 | 195.8 | 201.5 | 220.8 | 227.6 | 233.6 | 248.3 | 221.6 | 151.2 | | | | |
| | | | 230Vac | 170 | 178.9 | 182.3 | 185.6 | 192.8 | 198.4 | 216.3 | 223.2 | 229.1 | 243.7 | 217.2 | 149.1 | | | | |
| C9300X-24Y | 715WAC-P | C9300X-NM-4C | 115Vac | 196.6 | 220.4 | 225 | 229.4 | 237.7 | 219.5 | 248.4 | 256.4 | 261.8 | 275 | 248.2 | 169.9 | | | | |
| | | | 230Vac | 191.3 | 216.5 | 222.6 | 226 | 232.8 | 216.4 | 238.7 | 246.8 | 252.8 | 267.9 | 239.4 | 159.7 | | | | |
| C9300X-48HX | 1100WAC-P | Not Installed | 115Vac | 217.4 | 222.2 | 224.1 | 223.9 | 224.2 | 252.2 | 259.9 | 268.3 | 268.5 | 268.9 | 260 | 180.4 | 307.1 | 433.2 | 640.8 | 694.4 |
| | | | 230Vac | 211.4 | 217.8 | 219.5 | 219.8 | 220.1 | 242.8 | 255.5 | 263.5 | 264.2 | 264.9 | 255.2 | 178.9 | 300.2 | 422.5 | 620.5 | 672 |
| C9300X-48HX | 1100WAC-P | C9300X-NM-8M | 115Vac | 230.7 | 239.2 | 240.8 | 241 | 241.3 | 269.6 | 284.2 | 291.4 | 291.6 | 292.2 | 283.5 | 191.9 | 327.9 | 454.4 | 662.1 | 716.6 |
| | | | 230Vac | 226.2 | 233.7 | 234.5 | 235.6 | 236.4 | 265.9 | 278.3 | 285.3 | 286.5 | 277.9 | 187.9 | 321.2 | 444.6 | 642.5 | 693.6 | |

| | | | | Measured P(W) | | | | | | | | | | | | | | | | | | | |
|---------------------|-----------|---------------|--------|-------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|---------------------|---------|-----------------------|-------|-------|-------|-----|-----|-----|------|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | | 25% | 50% | 90% | 100% |
| SKU | FEP | Uplink | Input | 0.01%/ EEE | 10% | 30% | 50% | 100% | 0.01%/ EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% | | | | |
| C9300X-48HX | 1100WAC-P | C9300X-NM-2C | 115Vac | 234.4 | 255.1 | 257.5 | 260.8 | 266.9 | 266.2 | 284.1 | 286.6 | 288.8 | 294.7 | 283.3 | 199.5 | 413.7 | 575.4 | 845.1 | 914.2 | | | | |
| | | | 230Vac | 229 | 250 | 252.6 | 255.1 | 260 | 261 | 276.4 | 280.3 | 282.5 | 288.3 | 276 | 195.1 | 400.6 | 554.4 | 806.7 | 873.6 | | | | |
| C9300X-48HX | 1100WAC-P | C9300X-NM-8Y | 115Vac | 238.2 | 253.6 | 258.2 | 262.8 | 272.6 | 267.5 | 285.8 | 287.2 | 288.1 | 289.4 | 284.3 | 212.8 | 418.7 | 580.2 | 849.8 | 918.8 | | | | |
| | | | 230Vac | 226.9 | 248 | 252.5 | 257 | 266.4 | 262.2 | 295.4 | 316.5 | 318.6 | 333.2 | 295.9 | 196.4 | 407.6 | 560.8 | 815.3 | 880.2 | | | | |
| C9300X-48HX | 1100WAC-P | C9300X-NM-4C | 115Vac | 254.2 | 270.1 | 272.9 | 275.5 | 282 | 289.3 | 304.9 | 307.6 | 310.2 | 315.2 | 304.4 | 224.1 | 437.2 | 599.9 | 869.6 | 939.8 | | | | |
| | | | 230Vac | 248.8 | 259.2 | 262.4 | 263.1 | 270.8 | 280.6 | 298.3 | 301 | 303.7 | 308.9 | 297.6 | 215.3 | 426.4 | 581.6 | 834.9 | 899.5 | | | | |
| C9300X-48TX | 715WAC-P | Not Installed | 115Vac | 229.9 | 236.3 | 239.8 | 242.4 | 247.8 | 253.4 | 266.5 | 268.4 | 271.5 | 276.7 | 266.2 | 192.5 | | | | | | | | |
| | | | 230Vac | 213.6 | 233.4 | 235.7 | 237.8 | 242.7 | 246.9 | 260.8 | 263.5 | 265 | 269.8 | 260.3 | 184.3 | | | | | | | | |
| C9300X-48TX | 715WAC-P | C9300X-NM-8M | 115Vac | 215.8 | 237 | 245.2 | 250.4 | 254.2 | 249.9 | 282.4 | 291.1 | 297.6 | 312.8 | 282.2 | 185.7 | | | | | | | | |
| | | | 230Vac | 213.2 | 233.6 | 237.8 | 240.5 | 247.6 | 244 | 275.8 | 285 | 291 | 305.5 | 275.6 | 181.4 | | | | | | | | |
| C9300X-48TX | 715WAC-P | C9300X-NM-2C | 115Vac | 229.9 | 236.3 | 239.8 | 242.4 | 247.8 | 253.4 | 266.5 | 268.4 | 271.5 | 276.7 | 266.2 | 192.5 | | | | | | | | |
| | | | 230Vac | 213.6 | 233.4 | 235.7 | 237.8 | 242.7 | 246.9 | 260.8 | 263.5 | 265 | 269.8 | 260.3 | 184.3 | | | | | | | | |
| C9300X-48TX | 715WAC-P | C9300X-NM-8Y | 115Vac | 217.6 | 234.6 | 238.4 | 242.1 | 250 | 254.4 | 284.2 | 292 | 297.9 | 315 | 284.3 | 187.8 | | | | | | | | |
| | | | 230Vac | 212.7 | 230.4 | 234.2 | 237.7 | 245.3 | 247.8 | 278.7 | 287 | 293.5 | 309.9 | 278.7 | 184.1 | | | | | | | | |
| C9300X-48TX | 715WAC-P | C9300X-NM-4C | 115Vac | 232.2 | 246.7 | 249.1 | 251.4 | 256.6 | 270.1 | 286.1 | 288.6 | 290.9 | 295.2 | 285.4 | 195.5 | | | | | | | | |
| | | | 230Vac | 215.6 | 242.7 | 244.9 | 247.1 | 251.6 | 248.4 | 280.3 | 282.6 | 284.7 | 288.7 | 278 | 187.3 | | | | | | | | |
| C9300X-24HX | 1100WAC-P | Not Installed | 115Vac | 133.8 | 148.9 | 150.1 | 151.3 | 153.9 | 147.6 | 161.7 | 164 | 166.5 | 171.8 | 161.3 | 130.2 | 333.4 | 532.4 | 870.1 | 956.4 | | | | |
| | | | 230Vac | 131.2 | 145.5 | 147 | 148.4 | 151.3 | 144.8 | 158.4 | 161 | 163.3 | 169.5 | 158.1 | 127.2 | 325 | 515.4 | 833.4 | 912.6 | | | | |
| C9300X-24HX | 1100WAC-P | C9300X-NM-8M | 115Vac | 148.9 | 166 | 167.2 | 168 | 170.5 | 166.9 | 183 | 184.9 | 186.8 | 191.4 | 182.3 | 131.7 | 352.2 | 551.8 | 889.3 | 976.2 | | | | |
| | | | 230Vac | 141.6 | 162.5 | 163.5 | 164.5 | 166.6 | 154.7 | 178.8 | 180.7 | 182.6 | 187 | 177.2 | 128.6 | 344.5 | 537 | 852.7 | 933.9 | | | | |
| C9300X-24HX | 1100WAC-P | C9300X-NM-2C | 115Vac | 148.7 | 169.2 | 171.2 | 173.1 | 178.3 | 166.9 | 185.7 | 189.8 | 193.9 | 204.3 | 185.7 | 131.6 | 352.3 | 552.1 | 890.4 | 976.3 | | | | |
| | | | 230Vac | 145.2 | 165.4 | 167.5 | 169.5 | 174.4 | 163.4 | 181.5 | 185.6 | 189.5 | 199.5 | 181.5 | 128.6 | 343.8 | 535.6 | 852 | 932.6 | | | | |
| C9300X-24HX | 1100WAC-P | C9300X-NM-8Y | 115Vac | 148.8 | 171.9 | 174.4 | 176.6 | 181.6 | 171.3 | 186.5 | 190.6 | 194.7 | 204.8 | 186.8 | 131.2 | 357 | 557.6 | 895.5 | 982.3 | | | | |
| | | | 230Vac | 145.8 | 168.4 | 170.5 | 172.6 | 177.5 | 167.7 | 182.7 | 186.8 | 190.6 | 200.5 | 183 | 128.2 | 348.3 | 537.1 | 857.9 | 936.7 | | | | |
| C9300X-48HXN | 1100WAC-P | Not Installed | 115Vac | 133.8 | 148.9 | 150.1 | 151.3 | 153.9 | 147.6 | 161.7 | 164 | 166.5 | 171.8 | 161.3 | 130.2 | 333.4 | 532.4 | 870.1 | 956.4 | | | | |
| | | | 230Vac | 131.2 | 145.5 | 147 | 148.4 | 151.3 | 144.8 | 158.4 | 161 | 163.3 | 169.5 | 158.1 | 127.2 | 325 | 515.4 | 833.4 | 912.6 | | | | |
| C9300X-48HXN | 1100WAC-P | C9300X-NM-8M | 115Vac | 148.9 | 166 | 167.2 | 168 | 170.5 | 166.9 | 183 | 184.9 | 186.8 | 191.4 | 182.3 | 131.7 | 352.2 | 551.8 | 889.3 | 976.2 | | | | |
| | | | 230Vac | 141.6 | 162.5 | 163.5 | 164.5 | 166.6 | 154.7 | 178.8 | 180.7 | 182.6 | 187 | 177.2 | 128.6 | 344.5 | 537 | 852.7 | 933.9 | | | | |
| C9300X-48HXN | 1100WAC-P | C9300X-NM-2C | 115Vac | 148.7 | 169.2 | 171.2 | 173.1 | 178.3 | 166.9 | 185.7 | 189.8 | 193.9 | 204.3 | 185.7 | 131.6 | 352.3 | 552.1 | 890.4 | 976.3 | | | | |
| | | | 230Vac | 145.2 | 165.4 | 167.5 | 169.5 | 174.4 | 163.4 | 181.5 | 185.6 | 189.5 | 199.5 | 181.5 | 128.6 | 343.8 | 535.6 | 852 | 932.6 | | | | |
| C9300X-48HXN | 1100WAC-P | C9300X-NM-8Y | 115Vac | 186.8 | 198.2 | 202.9 | 205.6 | 209.4 | 197.1 | 214.2 | 219.9 | 222.9 | 231 | 214.2 | 150.6 | 375.1 | 561.6 | 871.6 | 952.5 | | | | |
| | | | 230Vac | 175.3 | 186.4 | 190.5 | 193.3 | 196.7 | 195.6 | 210 | 215.6 | 218.4 | 224.5 | 210 | 147.6 | 366.9 | 546.8 | 839.5 | 914.5 | | | | |

| ATIS Testing -100% | | | | Measured P(W) | | | | | | | | | | | | | | | | |
|--------------------|------------|---------------|--------|-------------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|---------------------|---------|-----------------------|-------|--------|--------|--|
| | | | | Half port traffic | | | | | Full port traffic | | | | | Weighted average Pw | No link | PoE test (no traffic) | | | | |
| SKU | Archer FEP | Uplink | Input | 0.01% / EEE | 10% | 30% | 50% | 100% | 0.01% / EEE | 10% | 30% | 50% | 100% | | | 25% | 50% | 90% | 100% | |
| C9300-48H | 1900W | C9300-NM-4G | 115Vac | 91.15 | 96.8 | 98.07 | 69.6 | 99.12 | 92.85 | 10.4 | 104.67 | 105.25 | 105.74 | 102.58 | 90.17 | 419.9 | 750.2 | 1296.2 | 1440.9 | |
| | | | 230Vac | 90.84 | 95.57 | 96.73 | 97.22 | 97.75 | 92.19 | 102.55 | 103.94 | 104.25 | 104.6 | 101.72 | 89.35 | 517 | 939.1 | 1637.6 | 1816.5 | |
| C9300-48H | 1900W | C9300-NM-2Q | 115Vac | 93.15 | 100.87 | 101.21 | 101.56 | 102.4 | 94.69 | 108.16 | 108.96 | 109.71 | 111.58 | 107.16 | 91.53 | 420.7 | 749.8 | 1299.1 | 1441.8 | |
| | | | 230Vac | 92.27 | 99.91 | 100.35 | 100.64 | 101.53 | 93.81 | 106.72 | 107.52 | 108.35 | 110.41 | 105.8 | 90.66 | 516 | 940.1 | 1635.3 | 1814.6 | |
| C9300-48H | 1900W | C9300-NM-8X | 115Vac | 94.48 | 102.47 | 102.94 | 103.46 | 104.43 | 97.27 | 110.25 | 110.92 | 111.75 | 113.79 | 109.3 | 92.43 | 422.9 | 751.3 | 1299.6 | 1441.6 | |
| | | | 230Vac | 94.02 | 101.23 | 101.69 | 102.1 | 103.08 | 96.24 | 108.89 | 109.65 | 110.53 | 112.55 | 108 | 91.44 | 519.2 | 943.8 | 1643.5 | 1821.3 | |
| C9300-48H | 1900W | C9300-NM-4M | 115Vac | 94.02 | 101.47 | 102.5 | 102.61 | 103.41 | 96.78 | 109.46 | 110.25 | 110.98 | 112.77 | 108.53 | 91.43 | 421.8 | 749.9 | 1297.5 | 1440.1 | |
| | | | 230Vac | 93.08 | 100.78 | 101.16 | 101.45 | 102.31 | 95.92 | 108.19 | 108.96 | 109.73 | 111.46 | 107.29 | 90.29 | 518.5 | 940.8 | 1635.2 | 1810.3 | |
| C9300-48H | 1900W | C9300-NM-2Y | 115Vac | 93.4 | 101.26 | 101.7 | 102.03 | 103.06 | 94.65 | 108.27 | 108.91 | 109.17 | 111.32 | 107.22 | 91.52 | 421.5 | 748.9 | 1295.7 | 1436.4 | |
| | | | 230Vac | 92.57 | 100.14 | 100.55 | 100.95 | 101.93 | 94.03 | 106.73 | 107.56 | 108.4 | 110.35 | 105.82 | 90.76 | 517 | 939.3 | 1635 | 1809.6 | |
| C9300-48H | 1900W | Not Installed | 115Vac | 85.65 | 92.17 | 93.35 | 93.63 | 94.11 | 84.96 | 97.07 | 98.24 | 98.4 | 99.5 | 96.1 | 85.76 | 411.4 | 739.6 | 1288.7 | 1430.7 | |
| | | | 230Vac | 84.89 | 91.33 | 92.45 | 92.68 | 93.17 | 84.33 | 96.45 | 97 | 97.36 | 98.37 | 95.43 | 85.32 | 506.8 | 928.8 | 1621.9 | 1799.9 | |
| C9300-24H | 1900W | Not Installed | 115Vac | 80.63 | 84.52 | 85.17 | 85.4 | 85.65 | 80.79 | 86.49 | 87.62 | 87.83 | 88.43 | 86.12 | 8041 | 407.5 | 741.3 | 1297.1 | 1438.1 | |
| | | | 230Vac | 79.55 | 83.21 | 84.7 | 84.91 | 85.25 | 79.7 | 86.09 | 87.13 | 87.36 | 87.94 | 85.63 | 79.39 | 503.6 | 931.8 | 1635.4 | 1810.3 | |
| C9300-24H | 1900W | C9300-NM-4G | 115Vac | 86.38 | 88.78 | 89.98 | 90.51 | 91.09 | 87.24 | 94.12 | 95.57 | 96.06 | 96.63 | 93.68 | 85.58 | 415.5 | 741.6 | 1288.9 | 1433.7 | |
| | | | 230Vac | 85.98 | 88.27 | 89.66 | 90.6 | 90.77 | 86.81 | 93.47 | 74.72 | 95.17 | 95.73 | 93.03 | 84.94 | 511.5 | 938.2 | 1639.5 | 1818.1 | |
| C9300-24H | 1900W | C9300-NM-2Q | 115Vac | 87.16 | 93.14 | 93.45 | 93.62 | 94.17 | 89.33 | 98.2 | 98.92 | 99.39 | 100.11 | 97.5 | 85.73 | 417.1 | 750.9 | 1304.4 | 1448.9 | |
| | | | 230Vac | 86.66 | 92.16 | 92.53 | 92.8 | 93.36 | 88.11 | 96.56 | 96.95 | 97.38 | 98.39 | 95.9 | 84.95 | 512.7 | 940.2 | 1641.6 | 1818.3 | |
| C9300-24H | 1900W | C9300-NM-8X | 115Vac | 88.85 | 93.82 | 94.89 | 95.08 | 95.69 | 91.72 | 99.5 | 100.5 | 101.03 | 102.21 | 98.99 | 85.95 | 419.9 | 754.5 | 1307.5 | 1450.9 | |
| | | | 230Vac | 88.1 | 92.69 | 93.8 | 94.12 | 94.71 | 90.92 | 98.32 | 99.29 | 99.71 | 100.6 | 97.81 | 85.24 | 515 | 942.7 | 1644.3 | 1822 | |
| C9300-24H | 1900W | C9300-NM-4M | 115Vac | 88.57 | 93.9 | 94.22 | 94.51 | 96.03 | 91.37 | 99.29 | 100.13 | 100.44 | 101.54 | 98.72 | 85.83 | 418.9 | 744.3 | 1298.3 | 1449.9 | |
| | | | 230Vac | 88.24 | 93.1 | 93.33 | 93.55 | 94.17 | 90.9 | 98.67 | 99.07 | 99.65 | 100.8 | 98.11 | 85.65 | 515.8 | 943.4 | 1644 | 1821.9 | |
| C9300-24H | 1900W | C9300-NM-4M | 115Vac | 87.81 | 94.47 | 94.73 | 94.79 | 95.29 | 89.81 | 98.27 | 99.32 | 100.28 | 101.12 | 97.71 | 86.65 | 418.6 | 748.4 | 1311.1 | 1448.7 | |
| | | | 230Vac | 87.26 | 92.59 | 92.86 | 93.13 | 93.9 | 88.93 | 97.03 | 97.58 | 97.97 | 99.03 | 96.42 | 85.48 | 511.9 | 940.9 | 1642 | 1819.4 | |

* ENERGY STAR® certified model.

Safety and compliance

Table 25 lists the safety and compliance information for the Cisco Catalyst 9300 Series.

Table 25. Safety and compliance information

| Description | Specification |
|---|--|
| Safety certifications | <ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA-C222.2 No. 60950-1 • EN 60950-1 • IEC 60950-1 • AS/NZS 60950.1 • IEEE 802.3 |
| Electromagnetic compatibility certifications | <ul style="list-style-type: none"> • 47 CFR Part 15 • EN 300 386 V1.6.1 • EN 55032 Class A • CISPR 32 Class A • EN61000-3-2 • EN61000-3-3 • ICES-003 Class A • TCVN 7189 Class A • V-3 Class A • CISPR 35 • EN 300 386 • EN 55035 • TCVN 7317 • V-2/2015.04 • V-3/2015.04 • CNS13438 • KN32 • KN35 <p>Additional certifications for C9300L SKUs:</p> <ul style="list-style-type: none"> • QCVN 118:2018/BTTTT • VCCI-CISPR 32 Class A |
| Environmental | <ul style="list-style-type: none"> • Reduction of Hazardous Substances (ROHS) 5 |

Ordering information

Table 26 lists ordering information for the Cisco Catalyst 9300 Series. To place an order, visit the Cisco Ordering homepage at https://www.cisco.com/en/US/ordering/or13/or8/order_customer_help_how_to_order_listing.html.

Table 26. Ordering information

| Switches | |
|-----------------------|--|
| Product number | Product description |
| C9300X-48HX-E | Catalyst 9300 48-port 10G/mGig copper with modular uplink, UPOE+, Network Essentials |
| C9300X-48HX-A | Catalyst 9300 48-port 10G/mGig copper with modular uplink, UPOE+, Network Advantage |
| C9300X-48HX-M | Catalyst 9300 48-port 10G/mGig copper with modular uplink, Meraki Advanced or Enterprise |
| C9300X-48TX-E | Catalyst 9300 48-port 10G/mGig copper with modular uplink, data only, Network Essentials |
| C9300X-48TX-A | Catalyst 9300 48-port 10G/mGig copper with modular uplink, data only, Network Advantage |
| C9300X-48TX-M | Catalyst 9300 48-port 10G/mGig copper with modular uplink, data only, Meraki Advanced or Enterprise |
| C9300X-48HXN-E | Catalyst 9300 40-port 5G/mGig, 8-port 10G copper with modular uplink, UPOE+, Network Essentials |
| C9300X-48HXN-A | Catalyst 9300 40-port 5G/mGig, 8-port 10G copper with modular uplink, UPOE+, Network Advantage |
| C9300X-48HXN-M | Catalyst 9300 40-port 5G/mGig, 8-port 10G copper with modular uplink, UPOE+, Meraki Advanced or Enterprise |
| C9300X-24HX-E | Catalyst 9300 24-port 10G/mGig copper with modular uplink, UPOE+, Network Essentials |
| C9300X-24HX-A | Catalyst 9300 24-port 10G/mGig copper with modular uplink, UPOE+, Network Advantage |
| C9300X-24HX-M | Catalyst 9300 24-port 10G/mGig copper with modular uplink, UPOE+, Meraki Advanced or Enterprise |
| C9300X-12Y-E | Catalyst 9300 12-port 25G/10G/1G SFP28 with modular uplinks, Network Essentials |
| C9300X-12Y-A | Catalyst 9300 12-port 25G/10G/1G SFP28 with modular uplinks, Network Advantage |
| C9300X-12Y-M | Catalyst 9300 12-port 25G/10G/1G SFP28 with modular uplinks, Meraki Advanced or Enterprise |

| Switches | |
|-----------------------|---|
| Product number | Product description |
| C9300X-24Y-E | Catalyst 9300 24-port 25G/10G/1G SFP28 with modular uplinks, Network Essentials |
| C9300X-24Y-A | Catalyst 9300 24-port 25G/10G/1G SFP28 with modular uplinks, Network Advantage |
| C9300X-24Y-M | Catalyst 9300 24-port 25G/10G/1G SFP28 with modular uplinks, Meraki Advanced or Enterprise |
| C9300-24T-E | Catalyst 9300 24-port 1G copper with modular uplinks, data only, Network Essentials |
| C9300-24T-A | Catalyst 9300 24-port 1G copper with modular uplinks, data only, Network Advantage |
| C9300-24T-M | Catalyst 9300 24-port 1G copper with modular uplinks, data only, Meraki Advanced or Enterprise |
| C9300-24P-E | Catalyst 9300 24-port 1G copper with modular uplinks, PoE+, Network Essentials |
| C9300-24P-A | Catalyst 9300 24-port 1G copper with modular uplinks, PoE+, Network Advantage |
| C9300-24P-M | Catalyst 9300 24-port 1G copper with modular uplinks, PoE+, Meraki Advanced or Enterprise |
| C9300-24U-E | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE, Network Essentials |
| C9300-24U-A | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE, Network Advantage |
| C9300-24U-M | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE, Meraki Advanced or Enterprise |
| C9300-24UB-E | Catalyst 9300 higher scale 24-port 1G copper with modular uplinks, UPOE, Network Essentials |
| C9300-24UB-A | Catalyst 9300 higher scale 24-port 1G copper with modular uplinks, UPOE, Network Advantage |
| C9300-24U-E-UL | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE, Network Advantage (Compatible with UL1069 Standard [*]) |
| C9300-24U-A-UL | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE, Network Advantage (Compatible with UL1069 Standard [*]) |
| C9300-24H-E | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE+, Network Essentials |
| C9300-24H-A | Catalyst 9300 24-port 1G copper with modular uplinks, UPOE+, Network Advantage |
| C9300-24UX-E | Catalyst 9300 24-port 10G/mGig copper with modular uplink, UPOE, Network Essentials |
| C9300-24UX-A | Catalyst 9300 24-port 10G/mGig copper with modular uplink, UPOE, Network Advantage |
| C9300-24UX-M | Catalyst 9300 24-port 10G/mGig copper with modular uplinks, UPOE, Meraki Advanced or Enterprise |

| Switches | |
|-----------------------|--|
| Product number | Product description |
| C9300-24UXB-E | Catalyst 9300 higher scale 24-port 10G/mGig copper with modular uplink, UPOE, Network Essentials |
| C9300-24UXB-A | Catalyst 9300 higher scale 24-port 10G/mGig copper with modular uplink, UPOE, Network Advantage |
| C9300-48T-E | Catalyst 9300 48-port 1G copper with modular uplinks, data only, Network Essentials |
| C9300-48T-A | Catalyst 9300 48-port 1G copper with modular uplinks, data only, Network Advantage |
| C9300-48T-M | Catalyst 9300 48-port 1G copper with modular uplinks, data only, Meraki Advanced or Enterprise |
| C9300-48P-E | Catalyst 9300 48-port 1G copper with modular uplinks, PoE+, Network Essentials |
| C9300-48P-A | Catalyst 9300 48-port 1G copper with modular uplinks, PoE+, Network Advantage |
| C9300-48P-M | Catalyst 9300 48-port 1G copper with modular uplinks, PoE+, Meraki Advanced or Enterprise |
| C9300-48U-E | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE, Network Essentials |
| C9300-48U-A | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE, Network Advantage |
| C9300-48U-M | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE, Meraki Advanced or Enterprise |
| C9300-48UB-E | Catalyst 9300 higher scale 48-port 1G copper with modular uplinks, UPOE, Network Essentials |
| C9300-48UB-A | Catalyst 9300 higher scale 48-port 1G copper with modular uplinks, UPOE, Network Advantage |
| C9300-48U-E-UL | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE, Network Essentials (Compatible with UL1069 Standard ¹) |
| C9300-48U-A-UL | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE, Network Advantage (Compatible with UL1069 Standard ¹) |
| C9300-48H-E | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE+, Network Essentials |
| C9300-48H-A | Catalyst 9300 48-port 1G copper with modular uplinks, UPOE+, Network Advantage |
| C9300-48UXM-E | Catalyst 9300 48-port 2.5G (12 10G/mGig) copper with modular uplinks, UPOE, Network Essentials |
| C9300-48UXM-A | Catalyst 9300 48-port 2.5G (12 10G/mGig) copper with modular uplinks, UPOE, Network Advantage |
| C9300-48UXM-M | Catalyst 9300 48-port 2.5G (12 10G/mGig) copper with modular uplinks, UPOE, Meraki Advanced or Enterprise |

| Switches | |
|-------------------------|---|
| Product number | Product description |
| C9300-48UN-E | Catalyst 9300 48-port 5G copper with modular uplinks, UPOE, Network Essentials |
| C9300-48UN-A | Catalyst 9300 48-port 5G copper with modular uplinks, UPOE, Network Advantage |
| C9300-48UN-M | Catalyst 9300 48-port 5G copper with modular uplinks, UPOE, Meraki Advanced or Enterprise |
| C9300-24S-E | Catalyst 9300 24-port 1G SFP with modular uplinks, Network Essentials |
| C9300-24S-A | Catalyst 9300 24-port 1G SFP with modular uplinks, Network Advantage |
| C9300-24S-M | Cisco Catalyst 9300 24-port 1G SFP, modular uplinks, Meraki Advanced or Enterprise |
| C9300-48S-E | Catalyst 9300 48-port 1G SFP with modular uplinks, Network Essentials |
| C9300-48S-A | Catalyst 9300 48-port 1G SFP with modular uplinks, Network Advantage |
| C9300-48S-M | Catalyst 9300 48-port 1G SFP with modular uplinks, Meraki Advanced or Enterprise |
| C9300L-24T-4G-E | Catalyst 9300 24-port 1G copper, with fixed 4x1G SFP uplinks, data only, Network Essentials |
| C9300L-24T-4G-A | Catalyst 9300 24-port 1G copper, with fixed 4x1G SFP uplinks, data only, Network Advantage |
| C9300L-24P-4G-E | Catalyst 9300 24-port 1G copper, with fixed 4x1G SFP uplinks, PoE+, Network Essentials |
| C9300L-24P-4G-A | Catalyst 9300 24-port 1G copper, with fixed 4x1G SFP uplinks, PoE+, Network Advantage |
| C9300L-48T-4G-E | Catalyst 9300 48-port 1G copper, with fixed 4x1G SFP uplinks, data only, Network Essentials |
| C9300L-48T-4G-A | Catalyst 9300 48-port 1G copper, with fixed 4x1G SFP uplinks, data only, Network Advantage |
| C9300L-48P-4G-E | Catalyst 9300 48-port 1G copper, with fixed 4x1G SFP uplinks, PoE+, Network Essentials |
| C9300L-48P-4G-A | Catalyst 9300 48-port 1G copper with fixed 4x1G SFP uplinks, PoE+, Network Advantage |
| C9300L-48PF-4G-E | Catalyst 9300 48-port 1G copper with fixed 4x1G SFP uplinks, PoE+, Network Essentials |
| C9300L-48PF-4G-A | Catalyst 9300 48-port 1G copper with fixed 4x1G SFP uplinks, PoE+, Network Advantage |
| C9300L-24T-4X-E | Catalyst 9300 24-port 1G copper with fixed 4x10G/1G SFP+ uplinks, data only, Network Essentials |
| C9300L-24T-4X-A | Catalyst 9300 24-port 1G copper with fixed 4x10G/1G SFP+ uplinks, data only, Network Advantage |

| Switches | |
|--------------------------|---|
| Product number | Product description |
| C9300L-24T-4X-M | Catalyst 9300 24-port 1G copper with fixed 4x10G/1G SFP+ uplinks, data only, Meraki Advanced or Enterprise |
| C9300L-24P-4X-E | Catalyst 9300 24-port 1G copper with fixed 4x10G/1G SFP+ uplinks, PoE+, Network Essentials |
| C9300L-24P-4X-A | Catalyst 9300 24-port 1G copper with fixed 4x10G/1G SFP+ uplinks, PoE+, Network Advantage |
| C9300L-24P-4X-M | Catalyst 9300 24-port 1G copper with fixed 4x10G/1G SFP+ uplinks, PoE+, Meraki Advanced or Enterprise |
| C9300L-24UXG-4X-E | Catalyst 9300 24-port 8XmGig (100M/1G/2.5G/5G/10G) + 16x 10M/100M/1G copper with fixed 4x10G/1G SFP+ uplinks, UPOE, Network Essentials |
| C9300L-24UXG-4X-A | Catalyst 9300 24-port 8XmGig (100M/1G/2.5G/5G/10G) + 16x 10M/100M/1G copper with fixed 4x10G/1G SFP+ uplinks, UPOE, Network Advantage |
| C9300L-24UXG-4X-M | Catalyst 9300 24-port 8XmGig (100M/1G/2.5G/5G/10G) + 16x 10M/100M/1G copper with fixed 4x10G/1G SFP+ uplinks, UPOE, Meraki Advanced or Enterprise |
| C9300L-48T-4X-E | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, data only, Network Essentials |
| C9300L-48T-4X-A | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, data only, Network Advantage |
| C9300L-48T-4X-M | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, data only, Meraki Advanced or Enterprise |
| C9300L-48P-4X-E | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, PoE+, Network Essentials |
| C9300L-48P-4X-A | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, PoE+, Network Advantage |
| C9300L-48P-4X-M | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, PoE+, Meraki Advanced or Enterprise |
| C9300L-48PF-4X-E | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, full PoE+, Network Essentials |
| C9300L-48PF-4X-A | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, full PoE+, Network Advantage |
| C9300L-48PF-4X-M | Catalyst 9300 48-port 1G copper with fixed 4x10G/1G SFP+ uplinks, full PoE+, Meraki Advanced or Enterprise |
| C9300L-48UXG-4X-E | Catalyst 9300 48-port fixed uplinks UPOE, 12x mGig (100M/1G/2.5G/5G/10G) + 36x 10M/100M/1G copper, 4x 10G uplinks, Network Essentials |

| Switches | |
|--------------------------|--|
| Product number | Product description |
| C9300L-48UXG-4X-A | Catalyst 9300 48-port 12x mGig (100M/1G/2.5G/5G/10G) + 36x 10M/100M/1G copper with fixed 4x 10G/1G SFP+ uplinks, UPOE, Network Advantage |
| C9300L-48UXG-4X-M | Catalyst 9300 48-port 12x mGig (100M/1G/2.5G/5G/10G) + 36x 10M/100M/1G copper with fixed 4x 10G/1G SFP+ uplinks, UPOE, Meraki Advanced or Enterprise |
| C9300L-24UXG-2Q-E | Catalyst 9300 24-port 8x mGig (100M/1G/2.5G/5G/10G) + 16x 10M/100M/1G copper with fixed 2x 40G QSFP uplinks, UPOE, Network Essentials |
| C9300L-24UXG-2Q-A | Catalyst 9300 24-port 8x mGig (100M/1G/2.5G/5G/10G) + 16x 10M/100M/1G copper with fixed 2x 40G QSFP uplinks, UPOE, Network Advantage |
| C9300L-48UXG-2Q-E | Catalyst 9300 48-port 12x mGig (100M/1G/2.5G/5G/10G) + 36x 10M/100M/1G copper with fixed 2x 40G QSFP uplinks, UPOE, Network Essentials |
| C9300L-48UXG-2Q-A | Catalyst 9300 48-port 12x mGig (100M/1G/2.5G/5G/10G) + 36x 10M/100M/1G copper with fixed 2x 40G QSFP uplinks, UPOE, Network Advantage |
| C9300LM-48UX-4Y-E | Catalyst 9300 mini 48-port UPOE, 8-port 10G Multigigabit copper, 40-port 1G, 4x 25G uplinks, Network Essentials |
| C9300LM-48UX-4Y-A | Catalyst 9300 mini 48-port UPOE, 8-port 10G Multigigabit copper, 40-port 1G, 4x 25G uplinks, Network Advantage |
| C9300LM-48U-4Y-E | Catalyst 9300 mini 48-port 1G copper, UPOE, 4x 25G uplinks, Network Essentials |
| C9300LM-48U-4Y-A | Catalyst 9300 mini 48-port 1G copper, UPOE, 4x 25G uplinks, Network Advantage |
| C9300LM-48T-4Y-E | Catalyst 9300 mini 48-port 1G copper, data, 4x 25G uplinks, Network Essentials |
| C9300LM-48T-4Y-A | Catalyst 9300 mini 48-port 1G copper, data, 4x 25G uplinks, Network Advantage |
| C9300LM-24U-4Y-E | Catalyst 9300 mini 24-port 1G copper, UPOE, 4x 25G uplinks, Network Essentials |
| C9300LM-24U-4Y-A | Catalyst 9300 mini 24-port 1G copper, UPOE, 4x 25G uplinks, Network Advantage |
| Network modules | |
| Product number | Product description |
| C9300X-NM-8M | Catalyst 9300X 8 x 10G/mGig copper Network Module |
| C9300X-NM-8M= | Catalyst 9300X 8 x 10G/mGig copper Network Module, spare |
| C9300X-NM-8Y | Catalyst 9300X 8 x 25G/10G/1G multi-rate SFP Network Module |
| C9300X-NM-8Y= | Catalyst 9300X 8 x 25G/10G/1G multi-rate SFP Network Module, spare |
| C9300X-NM-2C | Catalyst 9300X 2 x 100G/40G dual rate QSFP Network Module |

| Network modules | |
|----------------------|--|
| Product number | Product description |
| C9300X-NM-2C= | Catalyst 9300X 2 x 100G/40G dual rate QSFP Network Module, spare |
| C9300X-NM-4C | Catalyst 9300X 4 x 100G/40G dual rate QSFP Network Module |
| C9300X-NM-4C= | Catalyst 9300X 4 x 100G/40G dual rate QSFP Network Module, spare |
| C9300-NM-4G | Catalyst 9300 4 x 1GE SFP Network Module |
| C9300-NM-4G= | Catalyst 9300 4 x 1GE SFP Network Module, spare |
| C9300-NM-8X | Catalyst 9300 8 x 10G/1G SFP+ Network Module |
| C9300-NM-8X= | Catalyst 9300 8 x 10G/1G SFP+ Network Module, spare |
| C9300-NM-2Q | Catalyst 9300 2 x 40GE QSFP Network Module |
| C9300-NM-2Q= | Catalyst 9300 2 x 40GE QSFP Network Module, spare |
| C9300-NM-2Y | Catalyst 9300 2 x 25G/10G/1G SFP28 Network Module |
| C9300-NM-2Y= | Catalyst 9300 2 x 25G/10G/1G SFP28 Network Module, spare |
| C9300-NM-4M | Catalyst 9300 4 x 10G/mGig copper Network Module |
| C9300-NM-4M= | Catalyst 9300 4 x 10G/mGig copper Network Module, spare |
| NM-BLANK-T1= | Cisco Catalyst Type 1 Network Module Blank, spare |
| Storage Module | |
| Product number | Product description |
| SSD-120G | Cisco pluggable USB3.0 120G SSD storage |
| SSD-120G= | Cisco pluggable USB3.0 120G SSD storage, spare |
| SSD-240G | Cisco pluggable USB3.0 240G SSD storage |
| SSD-240G= | Cisco pluggable USB3.0 240G SSD storage, spare |

| Software licenses for C9300 SKUs | |
|----------------------------------|--|
| Product number | Product description |
| C9300-DNX-E-24-3Y | C9300 Cisco Catalyst Essentials, 24-port, 3 Year Term license |
| C9300-DNX-E-24-5Y | C9300 Cisco Catalyst Essentials, 24-port, 5 Year Term license |
| C9300-DNX-E-24-7Y | C9300 Cisco Catalyst Essentials, 24-port, 7 Year Term license |
| C9300-DNX-A-24-3Y | C9300 Cisco Catalyst Advantage, 24-port, 3 Year Term license |
| C9300-DNX-A-24-5Y | C9300 Cisco Catalyst Advantage, 24-port, 5 Year Term license |
| C9300-DNX-A-24-7Y | C9300 Cisco Catalyst Advantage, 24-port, 7 Year Term license |
| C9300-DNX-E-48-3Y | C9300 Cisco Catalyst Essentials, 48-port, 3 Year Term license |
| C9300-DNX-E-48-5Y | C9300 Cisco Catalyst Essentials, 48-port, 5 Year Term license |
| C9300-DNX-E-48-7Y | C9300 Cisco Catalyst Essentials, 48-port, 7 Year Term license |
| C9300-DNX-A-48-3Y | C9300 Cisco Catalyst Advantage, 48-port, 3 Year Term license |
| C9300-DNX-A-48-5Y | C9300 Cisco Catalyst Advantage, 48-port, 5 Year Term license |
| C9300-DNX-A-48-7Y | C9300 Cisco Catalyst Advantage, 48-port, 7 Year Term license |
| C9300-DNX-E-24S-3Y | C9300 1G Fiber Cisco Catalyst Essentials, 24-port, 3 Year Term license |
| C9300-DNX-E-24S-5Y | C9300 1G Fiber Cisco Catalyst Essentials, 24-port, 5 Year Term license |
| C9300-DNX-E-24S-7Y | C9300 1G Fiber Cisco Catalyst Essentials, 24-port, 7 Year Term license |
| C9300-DNX-A-24S-3Y | C9300 1G Fiber Cisco Catalyst Advantage, 24-port, 3 Year Term license |
| C9300-DNX-A-24S-5Y | C9300 1G Fiber Cisco Catalyst Advantage, 24-port, 5 Year Term license |
| C9300-DNX-A-24S-7Y | C9300 1G Fiber Cisco Catalyst Advantage, 24-port, 7 Year Term license |
| C9300-DNX-E-48S-3Y | C9300 1G Fiber Cisco Catalyst Essentials, 48-port, 3 Year Term license |
| C9300-DNX-E-48S-5Y | C9300 1G Fiber Cisco Catalyst Essentials, 48-port, 5 Year Term license |
| C9300-DNX-E-48S-7Y | C9300 1G Fiber Cisco Catalyst Essentials, 48-port, 7 Year Term license |
| C9300-DNX-A-48S-3Y | C9300 1G Fiber Cisco Catalyst Advantage, 48-port, 3 Year Term license |
| C9300-DNX-A-48S-5Y | C9300 1G Fiber Cisco Catalyst Advantage, 48-port, 5 Year Term license |
| C9300-DNX-A-48S-7Y | C9300 1G Fiber Cisco Catalyst Advantage, 48-port, 7 Year Term license |

| Software licenses for C9300 SKUs | |
|----------------------------------|--|
| Product number | Product description |
| C9300-DNA-L-E-3Y | C9300 Cisco DNA Essentials license, for 12Y, 24Y SKUs, 3 Year Term license |
| C9300-DNA-L-E-5Y | C9300 Cisco DNA Essentials license, for 12Y, 24Y SKUs, 5 Year Term license |
| C9300-DNA-L-E-7Y | C9300 Cisco DNA Essentials license, for 12Y, 24Y SKUs, 7 Year Term license |
| C9300-DNA-L-A-3Y | C9300 Cisco DNA Advantage license, for 12Y, 24Y SKUs, 3 Year Term license |
| C9300-DNA-L-A-5Y | C9300 Cisco DNA Advantage license, for 12Y, 24Y SKUs, 5 Year Term license |
| C9300-DNA-L-A-7Y | C9300 Cisco DNA Advantage license, for 12Y, 24Y SKUs, 7 Year Term license |
| C9300-LIC= | Electronic Cisco DNA Upgrade License for C9300 switches. Note: when upgrading from Cisco DNA Essentials to Cisco DNA Advantage, Network Essentials is also upgraded to Network Advantage |
| LIC-C9300-24A-1Y | C9300 Cisco Meraki Advanced Software license, 24-port, 1 Year Term license |
| LIC-C9300-24A-3Y | C9300 Cisco Meraki Advanced Software license, 24-port, 3 Year Term license |
| LIC-C9300-24A-5Y | C9300 Cisco Meraki Advanced Software license, 24-port, 5 Year Term license |
| LIC-C9300-24A-7Y | C9300 Cisco Meraki Advanced Software license, 24-port, 7 Year Term license |
| LIC-C9300-24A-10Y | C9300 Cisco Meraki Advanced Software license, 24-port, 10 Year Term license |
| LIC-C9300-24E-1Y | C9300 Cisco Meraki Enterprise Software license, 24-port, 1 Year Term license |
| LIC-C9300-24E-3Y | C9300 Cisco Meraki Enterprise Software license, 24-port, 3 Year Term license |
| LIC-C9300-24E-5Y | C9300 Cisco Meraki Enterprise Software license, 24-port, 5 Year Term license |
| LIC-C9300-24E-7Y | C9300 Cisco Meraki Enterprise Software license, 24-port, 7 Year Term license |
| LIC-C9300-24E-10Y | C9300 Cisco Meraki Enterprise Software license, 24-port, 10 Year Term license |
| LIC-C9300-48A-1Y | C9300 Cisco Meraki Advanced Software license, 48-port, 1 Year Term license |
| LIC-C9300-48A-3Y | C9300 Cisco Meraki Advanced Software license, 48-port, 3 Year Term license |
| LIC-C9300-48A-5Y | C9300 Cisco Meraki Advanced Software license, 48-port, 5 Year Term license |
| LIC-C9300-48A-7Y | C9300 Cisco Meraki Advanced Software license, 48-port, 7 Year Term license |
| LIC-C9300-48A-10Y | C9300 Cisco Meraki Advanced Software license, 48-port, 10 Year Term license |
| LIC-C9300-48E-1Y | C9300 Cisco Meraki Enterprise Software license, 48-port, 1 Year Term license |

| Software licenses for C9300 SKUs | |
|----------------------------------|---|
| Product number | Product description |
| LIC-C9300-48E-3Y | C9300 Cisco Meraki Enterprise Software license, 48-port, 3 Year Term license |
| LIC-C9300-48E-5Y | C9300 Cisco Meraki Enterprise Software license, 48-port, 5 Year Term license |
| LIC-C9300-48E-7Y | C9300 Cisco Meraki Enterprise Software license, 48-port, 7 Year Term license |
| LIC-C9300-48E-10Y | C9300 Cisco Meraki Enterprise Software license, 48-port, 10 Year Term license |

| Software licenses for C9300L SKUs | |
|-----------------------------------|--|
| Product number | Product description |
| C9300L-DNX-E-24-3Y | C9300L Cisco Catalyst Essentials, 24-port, 3 Year Term license |
| C9300L-DNX-E-24-5Y | C9300L Cisco Catalyst Essentials, 24-port, 5 Year Term license |
| C9300L-DNX-E-24-7Y | C9300L Cisco Catalyst Essentials, 24-port, 7 Year Term license |
| C9300L-DNX-A-24-3Y | C9300L Cisco Catalyst Advantage, 24-port, 3 Year Term license |
| C9300L-DNX-A-24-5Y | C9300L Cisco Catalyst Advantage, 24-port, 5 Year Term license |
| C9300L-DNX-A-24-7Y | C9300L Cisco Catalyst Advantage, 24-port, 7 Year Term license |
| C9300L-DNX-E-48-3Y | C9300L Cisco Catalyst Essentials, 48-port, 3 Year Term license |
| C9300L-DNX-E-48-5Y | C9300L Cisco Catalyst Essentials, 48-port, 5 Year Term license |
| C9300L-DNX-E-48-7Y | C9300L Cisco Catalyst Essentials, 48-port, 7 Year Term license |
| C9300L-DNX-A-48-3Y | C9300L Cisco Catalyst Advantage, 48-port, 3 Year Term license |
| C9300L-DNX-A-48-5Y | C9300L Cisco Catalyst Advantage, 48-port, 5 Year Term license |
| C9300L-DNX-A-48-7Y | C9300L Cisco Catalyst Advantage, 48-port, 7 Year Term license |
| C9300L-DNA-E-24-3Y | C9300L Cisco DNA Essentials, 24-port, 3 Year Term license |
| C9300L-DNA-E-24-5Y | C9300L Cisco DNA Essentials, 24-port, 5 Year Term license |
| C9300L-DNA-E-24-7Y | C9300L Cisco DNA Essentials, 24-port, 7 Year Term license |
| C9300L-DNA-A-24-3Y | C9300L Cisco DNA Advantage, 24-port, 3 Year Term license |
| C9300L-DNA-A-24-5Y | C9300L Cisco DNA Advantage, 24-port, 5 Year Term license |

| Software licenses for C9300L SKUs | |
|-----------------------------------|---|
| Product number | Product description |
| C9300L-DNA-A-24-7Y | C9300L Cisco DNA Advantage, 24-port, 7 Year Term license |
| C9300L-DNA-E-48-3Y | C9300L Cisco DNA Essentials, 48-port, 3 Year Term license |
| C9300L-DNA-E-48-5Y | C9300L Cisco DNA Essentials, 48-port, 5 Year Term license |
| C9300L-DNA-E-48-7Y | C9300L Cisco DNA Essentials, 48-port, 7 Year Term license |
| C9300L-DNA-A-48-3Y | C9300L Cisco DNA Advantage, 48-port, 3 Year Term license |
| C9300L-DNA-A-48-5Y | C9300L Cisco DNA Advantage, 48-port, 5 Year Term license |
| C9300L-DNA-A-48-7Y | C9300L Cisco DNA Advantage, 48-port, 7 Year Term license |
| C9300L-LIC= | Electronic Cisco DNA Upgrade License for C9300L switches. Note: when upgrading from Cisco DNA Essentials to Cisco DNA Advantage, Network Essentials is also upgraded to Network Advantage |

| Power supplies | |
|--------------------------|--|
| Product number | Product description |
| PWR-C1-350WAC= | 350WAC power supply spare |
| PWR-C1-715WAC= | 715WAC power supply spare |
| PWR-C1-715WDC= | 715WDC power supply spare |
| PWR-C1-1100WAC= | 1100WAC power supply spare |
| PWR-C1-1900WAC= | 1900WAC Power supply spare |
| PWR-C1-350WAC-P= | 350WAC Platinum-rated power supply spare |
| PWR-C1-715WAC-P= | 715WAC Platinum-rated power supply spare |
| PWR-C1-1100WAC-P= | 1100WAC Platinum-rated power supply spare |
| PWR-C1-715WAC-UP | Upgrade to 715WAC Platinum-rated power supply |
| PWR-C1-1100WAC-UP | Upgrade to 1100WAC Platinum-rated power supply |
| PWR-C1-1900WAC-UP | Upgrade to 1900WAC Platinum-rated power supply |

| Cisco StackWise-480/1T and StackPower cables | |
|--|--|
| Product number | Product description |
| STACK-T1-50CM= | Cisco StackWise-480/1T 50cm stacking cable spare |
| STACK-T1-1M= | Cisco StackWise-480/1T 1m stacking cable spare |
| STACK-T1-3M= | Cisco StackWise-480/1T 3m stacking cable spare |
| CAB-SPWR-30CM= | Cisco Catalyst StackPower cable 30cm spare |
| CAB-SPWR-150CM= | Cisco Catalyst StackPower cable 150cm spare |

| Cisco StackWise-320 Accessories | |
|---------------------------------|--|
| Product number | Product description |
| C9300L-STACK-KIT | Stack Kit for C9300L SKUs – includes 2 Stack Adaptors and 1 Stack Cable |
| C9300L-STACK-KIT= | Stack Kit for C9300L SKUs – includes 2 Stack Adaptors and 1 Stack Cable, spare |
| STACK-T3-50CM | 50CM Type 3 Stacking Cable – default with Stack Kit for C9300L SKUs |
| STACK-T3-50CM= | 50CM Type 3 Stacking Cable, spare for C9300L SKUs |
| STACK-T3-1M | 1M Type 3 Stacking Cable for C9300L SKUs |
| STACK-T3-1M= | 1M Type 3 Stacking Cable, spare for C9300L SKUs |
| STACK-T3-3M | 3M Type 3 Stacking Cable for C9300L SKUs |
| STACK-T3-3M= | 3M Type 3 Stacking Cable, spare for C9300L SKUs |
| C9300L-STACK-KIT2 | Stack Kit 2 for C9300L SKUs – includes 2 Stack Adaptors and 1 Stack Cable |
| C9300L-STACK-KIT2= | Stack Kit 2 for C9300L SKUs – includes 2 Stack Adaptors and 1 Stack Cable, spare |
| STACK-T3A-50CM | 50CM Type 3A Stacking Cable – default with Stack Kit for C9300L SKUs |
| STACK-T3A-50CM= | 50CM Type 3A Stacking Cable, spare for C9300L SKUs |
| STACK-T3A-1M | 1M Type 3A Stacking Cable for C9300L SKUs |
| STACK-T3A-1M= | 1M Type 3A Stacking Cable, spare for C9300L SKUs |
| STACK-T3A-3M | 3M Type 3A Stacking Cable for C9300L SKUs |
| STACK-T3A-3M= | 3M Type 3A Stacking Cable, spare for C9300L SKUs |

| Cisco StackWise-320 Accessories | |
|---------------------------------|--|
| Product number | Product description |
| Spare power cords | |
| CAB-TA-NA= | AC power cord for Cisco Catalyst (North America) |
| CAB-TA-AP= | AC power cord for Cisco Catalyst (Australia) |
| CAB-TA-AR= | AC power cord for Cisco Catalyst (Argentina) |
| CAB-TA-SW= | AC power cord for Cisco Catalyst (Switzerland) |
| CAB-TA-UK= | AC power cord for Cisco Catalyst (United Kingdom) |
| CAB-TA-JP= | AC power cord for Cisco Catalyst (Japan) |
| CAB-TA-250V-JP | Japan 250VAC power cord for Cisco Catalyst (Japan) |
| CAB-TA-EU= | AC power cord for Cisco Catalyst (Europe) |
| CAB-TA-IT= | AC power cord for Cisco Catalyst (Italy) |
| CAB-TA-IN= | AC power cord for Cisco Catalyst (India) |
| CAB-TA-CN= | AC power cord for Cisco Catalyst (China) |
| CAB-TA-DN= | AC power cord for Cisco Catalyst (Denmark) |
| CAB-TA-IS= | AC power cord for Cisco Catalyst (Israel) |
| CAB-ACBZ-12A= | AC power cord for Cisco Catalyst (Brazil), 12A/125V BR-3-20 plug up to 12A |
| CAB-ACBZ-10A= | AC power cord for Cisco Catalyst (Brazil), 10A/250V BR-3-10 plug up to 10A |
| CAB-C15-CBN | Cabinet jumper power cord, 250VAC 13A, C14-C15 connectors |

Optics online reference

The Cisco Catalyst 9300 Series supports a wide range of optics. Because the list of supported optics is updated on a regular basis, consult the tables available here for the latest QSFP28, QSFP+, SFP+, and SFP compatibility information: https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html.

Warranty

Cisco Enhanced Limited Lifetime hardware warranty

The Cisco Catalyst 9300 Series Switches come with the Cisco Enhanced Limited Lifetime hardware warranty (E-LLW) that includes next-business-day (NBD) delivery of replacement hardware where available and 90 days of 8x5 Cisco TAC support.

Your formal warranty statement, including the warranty applicable to Cisco software, appears in the information packet that accompanies your Cisco product. We encourage you to review the warranty statement shipped with your specific product carefully before use.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

For further information about warranty terms, visit <https://www.cisco.com/go/warranty>. Table 27 provides information about the E-LLW.

Table 27. E-LLW details

| | Cisco E-LLW |
|-----------------------------|--|
| Devices covered | Applies to Cisco Catalyst 9300 Series Switches. |
| Warranty duration | As long as the original customer owns the product. |
| End-of-life policy | In the event of discontinuance of product manufacture, Cisco warranty support is limited to 5 years from the announcement of discontinuance. |
| Hardware replacement | Cisco or its service center will use commercially reasonable efforts to ship a replacement for NBD delivery, where available. Otherwise, a replacement will be shipped within 10 working days after receipt of the Return Materials Authorization (RMA) request. Actual delivery times might vary depending on customer location. |
| Effective date | Hardware warranty commences from the date of shipment to customer (and in case of resale by a Cisco reseller, not more than 90 days after original shipment by Cisco). |
| TAC support | Cisco will provide during business hours, 8 hours per day, 5 days per week, basic configuration, diagnosis, and troubleshooting of device-level problems for up to a 90-day period from the date of shipment of the originally purchased Cisco Catalyst 9300 Series product. This support does not include solution or network-level support beyond the specific device under consideration. |
| Cisco.com access | Warranty allows guest access only to Cisco.com. |

Product sustainability

Information about Cisco's Environmental, Social and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability [reporting](#).

ENERGY STAR certification

Cisco is driving long-term value and market advantage by continuing to embed energy efficiency through hardware and software and by providing customers visibility into their energy consumption to help them develop a baseline, identify trends and anomalies, and take corrective actions.

With the ENERGY STAR certification of Catalyst 9300 Series models, Cisco is one of the first networking company to have third party-approved campus switches. Ecolabel certifications like ENERGY STAR help customers identify “environmentally preferable” products to help maximize energy efficiency, reduce greenhouse gas emissions, and lower energy costs.

ENERGY STAR certification reinforces Cisco's ongoing commitment to deliver energy-efficient products including top-rated power supplies, active power management and monitoring capabilities, and alignment to ISO 14000 Environmental Management systems standards – all designed with circularity principles in mind.

Learn more:

[ENERGY STAR Certified Product Finder](#)

Table 28. Links to sustainability topics

| Sustainability topic | Reference |
|---|---|
| General | Information on product-material-content laws and regulations |
| | Materials |
| | Information on electronic waste laws and regulations, including our products, batteries and packaging |
| | WEEE Compliance |
| | Sustainability Inquiries |
| | Contact: csr_inquiries@cisco.com |
| Information on product takeback and reuse program | Cisco Takeback and Reuse Program |
| Safety and compliance | Table 25. Safety and compliance information |
| Mean Time Between Failures – MTBF (hours) | Table 18. Model Dimensions, Weight, and Mean Time between failures metrics |

| Sustainability topic | | Reference |
|----------------------|--|---|
| Power | Default AC power supply | Table 2. Cisco Catalyst 9300 Series switch configurations |
| | Power supplies | Table 4. Power supply models Table 21. Power specifications Table 22. Power specifications – Platinum-rated power supplies |
| | Fan | Table 7. Fan modules |
| | Energy Efficient Ethernet | Smart operation |
| | Power over Ethernet (Cisco UPOE and UPOE+) | Power over Ethernet leadership |
| | Power connectors | Table 19. Power connectors |
| | Power consumption (ATIS) | Table 23. Power Consumption of Standalone 9300 Series Switches Table 24. Power consumption of Standalone 9300 Series Switches with Platinum-rated power supply |
| | ENERGY STAR certified models | ENERGY STAR Certified Large Network Equipment |
| Material | Product packaging weight and materials | Contact: environment@cisco.com |
| | Dimensions | Table 18. Model dimensions, weight, and mean time between failures metrics. |
| | Weight | Table 18. Model dimensions, weight, and mean time between failures metrics. |
| | Elimination of wet paint on plastic bezel | 2019 Cisco Corporate Social Responsibility Report , Pg. 19 Stepping up our work on circularity |

Cisco Services

Cisco Services for next-generation Cisco Catalyst 9000 Series Switches

Achieve infrastructure excellence faster and with less risk. Cisco Catalyst 9000 Services provide expert guidance to help you successfully deploy, manage, and support the Cisco Catalyst 9000 switching family. With unmatched networking expertise, best practices, and innovative tools, we can help you reduce overall upgrade, refresh, and migration costs as you introduce new hardware, software, and protocols into the network. Offering a comprehensive lifecycle of services – from implementation, optimization, technical, and managed services – Cisco experts help you reduce disruption and achieve operational excellence to extract maximum value from your Cisco DNA-ready infrastructure.

[Learn more about Cisco Services for Enterprise Networks](#)

Software policy for Cisco Catalyst 9300 Series Switches

Software policy for network stack components

Customers with the Network Essentials Stack and Network Advantage Stack software feature sets are provided with maintenance updates and bug fixes designed to maintain compliance of the software. This includes compliance with published specifications, release notes, and industry standards as long as the original end user continues to own or use the product or up to one year from the end-of-sale date for the product, whichever occurs earlier.

Cisco Embedded Support for Cisco Catalyst and Cisco DNA term components

Cisco Embedded Support delivers the right support for Cisco software products and suites. It will keep your business applications performing as expected and protect your investment. Cisco Embedded Support for the Cisco Catalyst and Cisco DNA Essentials and Cisco Catalyst and Cisco DNA Advantage term components is included. Cisco Embedded Support provides access to TAC support, major software updates, maintenance and minor software releases, and the Cisco Embedded Support site, for increased productivity with anytime access.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital® makes it easier to get the right technology to achieve your objectives, enable business transformation, and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services, and complementary third-party equipment in easy, predictable payments. [Learn more](#).

Document history

| New or revised topic | Described In | Date |
|--|---|-------------------|
| Correction to say 9300 instead of 9200 in couple of entries (C9200-48S, C9200-24S) | Table 4: Power Supply Models | October 9, 2024 |
| Correction for switching bandwidth numbers and addition of STP virtual ports | Table 9: Bandwidth Specifications | October 9, 2024 |
| Added Simplified Campus Automation | All relevant sections | June 4, 2024 |
| ENERGY STAR certification | All relevant sections | April 12, 2024 |
| Added new models supporting the Meraki Software options | All relevant sections | February 6, 2024 |
| Added Cisco Catalyst and Meraki Software options | All relevant sections | December 5, 2023 |
| Added Information about 9300X, copper models | All relevant sections | February 3, 2022 |
| Added Information about 9300X fiber models | All relevant sections | March 2, 2021 |
| Added information about the 1G 90W UPOE+ SKUs | Across different sections | February 10, 2020 |
| Added new SKUs for C9300L - Full PoE+ and mGig SKUs | Content added to all the tables | December 2, 2019 |
| Updates for C9300 - large buffer/scale SKUs | All relevant sections | October 9, 2019 |
| Adding Primary PSU upgrade option for 9300 | Table 4: Power supply models | June 20, 2019 |
| Product name change: Cisco ONE to Cisco DNA | Introduction | May 10, 2019 |
| Wi-Fi 6 addition | Product Overview: Features | May 10, 2019 |
| Add: Features | Product Overview: Features | May 10, 2019 |
| Add: Modular uplink models table | Platform Details | May 10, 2019 |
| Edit: Cisco Catalyst 9300 Series modular uplink | Platform Details | May 10, 2019 |
| Edit: Table 1: Cisco Catalyst 9300 Series Switch configurations; uplink configuration add | Platform Details | May 10, 2019 |
| Edit: Table 2: Name change to “Catalyst 9300...” | Platform Details | May 10, 2019 |
| Add: Figure 3: picture for C9300L | Platform Details | May 10, 2019 |

| New or revised topic | Described In | Date |
|--|---|-------------------|
| Edit: Table 3: Power supply models | Platform Details | May 10, 2019 |
| Add: Stacking, Table 4 | Platform Details | May 10, 2019 |
| Add: Stacking Accessories, Table 5 | Platform Details | May 10, 2019 |
| Edit: Replaced C3850 stack picture with C9300 stack picture | Platform Details | May 10, 2019 |
| Add: Fan, Table 6 | Platform Details | May 10, 2019 |
| Edit: Table 7 | Performance and Scalability | May 10, 2019 |
| Add: Bandwidth Specifications | Performance and Scalability | May 10, 2019 |
| Add: StackWise-320 | Resiliency and High Availability | May 10, 2019 |
| Edit: name change from Cisco One to Cisco DNA Software | Software Requirements | May 10, 2019 |
| Edit: text edits | Licensing | May 10, 2019 |
| Edit: Table 13 | Licensing | May 10, 2019 |
| Edit: Table 14 | Specifications | May 10, 2019 |
| Edit: Table 15 | Connectors | May 10, 2019 |
| Edit: Table 17 | Power Supply Specifications | May 10, 2019 |
| Edit: Table 21 | Safety and Compliance | May 10, 2019 |
| Edit: Table 23 | Ordering Information | May 10, 2019 |
| Added support for SD-Access Embedded Wireless | Added support for SD-Access Embedded Wireless Controller functionality. | November 13, 2018 |
| Updated Platinum Power Supply specifications | Platinum rated power supplies available on the C9300 switches. | October 5, 2018 |
| Updated availability of SSD card | Availability of 120G storage module for the C9300. | October 5, 2018 |

| New or revised topic | Described In | Date |
|---|--|-------------------|
| Updated Product overview | <p>Added Catalyst 9500 high density platforms and updated associated speeds and densities, e.g. Up to 6.4-Tbps switching capacity with up to 2 Bpps of forwarding performance from “3.2 Tbps/1 Bpps” a. 32 port 100G, b. 32 port 40G, c. 48 port 25G. Added Catalyst 9500 mid density platform a. 24 port 25G, b. 16 port 1/10G. Added new optical interfaces - QSFP28, SFP28. Added new power supply options - 650W, 1600W. Added RESCONF support. StackWise Virtual extended to all Catalyst 9500 platforms.</p> | March 31, 2018 |
| Updated Audio Video Bridging | <p>AVB support noted for certain platforms. Corrected references to Catalyst 9000 switches, rather than Catalyst 9000 Series switches. Corrected references to Cisco IOS XE, rather than IOS XE.</p> | December 15, 2017 |