



## Anybus Communicator - EtherNet/IP adapter - Modbus TCP server

The Anybus Communicator EtherNet/IP adapter – Modbus TCP server is an industrial protocol gateway that allows you to seamlessly transfer data between PLC control systems over EtherNet/IP and Modbus TCP networks.

Anybus Communicators are designed to ensure reliable, secure, and high-speed data transfer between different industrial Ethernet and Fieldbus networks. Very easy to install and deploy, the stand-alone gateways enable transparent data exchange between PLCs allowing you to both bridge and integrate legacy equipment into modern high-performance networks with only minimal changes to the software.

Anybus Communicators are built using the award-winning and proven Anybus NP40 industrial network processor providing network conformance, high performance, and reliability. When connecting between PLCs on different networks, extremely fast data cycling is enabled with data transfer of up to 1500 bytes in each direction, meeting most current control application needs as well as supporting future demands.

Quick installation is ensured thanks to the intuitive configuration, easy-to-understand documentation, and smart hardware and housing design.



### Excellent performance

- Instant data transfer - The time it takes to transfer data between two PLCs consists of the cycle time on the first network plus the cycle time on the second network. Internal data transfer in the Communicators is negligible as it's in line with the natural variation of the network cycle times (jitter).
- Hardware-accelerated endian conversion (byte swap) - The Communicators can change the data representation (endianness) through a hardware-accelerated endian conversion to ensure data is presented correctly in each PLC. You can even convert different parts of the data area in different ways to handle different data types. It has no impact on performance, offloads the PLC of the data conversion task, and simplifies PLC programming.

### Easy to Use

Dedicated ethernet configuration port - no special cables required.

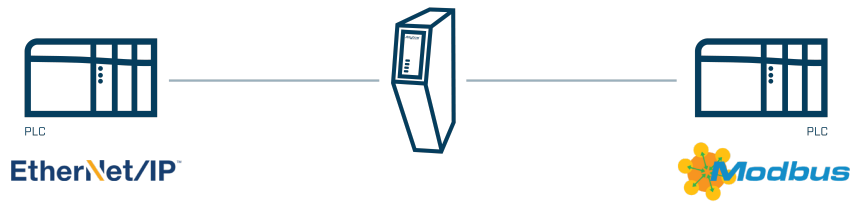
- Intuitive web-based drag and drop configuration interface - no need to install any additional software.
- Forward-facing ports make it easy to connect cables and the slim form factor saves space on the DIN rail.
- Troubleshoot problems with powerful diagnostics including live data monitor, status screen, and support package.

#### Latest Security Features

- Secure boot functionality to detect tampering with firmware and resist attacks and infection from malware.
- Security switch which locks your configuration and prevents any unauthorized access.

#### Designed for industrial environments

- Robust compact housing.
- Industrial components are tested and certified according to CE and UL.
- Wide temperature range, -25°C to 70°C.
- DIN-rail mounting to enable installation close to connected devices, reducing the amount of wiring.



#### ETHERNET/IP FEATURES

- EtherNet/IP adapter mode
- Transfer up to 1 448 bytes to and from EtherNet/IP (2896 bytes total)
- Class 1 and Class 3 connection for process data
- Device Level Ring (beacon mode)
- Quick Connect class B
- Dual RJ45 Ethernet ports with 10/100 Mbit full duplex
- Daisy chaining with integrated switch

#### MODBUS TCP FEATURES

- Modbus TCP server
- Transfer up to 1 500 bytes to and from Modbus TCP (3 000 bytes total)
- 4 connections
- Function codes 01-06, 15-16, 23, 43/14
- Dual RJ45 Ethernet ports with 10/100 Mbit full duplex
- Daisy chaining with integrated switch

# Communicator Web UI Intro



## GENERAL

Dimensions (L x W x H) with serial and power connector	98 x 27 x 144 mm 3.85 x 1.06 x 5,67 in
Weight	150 grams, 0.33 lb
Buttons and switches	Reset button and security switch
LEDs	Gateway, Network 1 & Network 2
IP rating	IP20
Housing material	PC ABS, UL 94 VO

Mounting	DIN rail (35 * 7,5/15)
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ENVIRONMENT

Operating temperature	-25 to 70° C, -13 to 158° F
Storage temperature	-40 to 85° C, -40 to 185° F
Relative humidity	0-95% non condensing
Installation altitude	Up to 2 000 m

POWER

Input voltage	12 - 30 VDC
Current consumption	Typical: 160 mA @ 24V Max: 400 mA @ 12V
Power connector	3-pin plug with screw terminal
Protection	Reverse voltage protection and short circuit protection

ETHERNET PORTS

Ports	2+2 x Ethernet
Isolation	Galvanic isolation
Bitrate	10/100 Mbit full duplex
Connector	RJ45
Switch.	Dual port cut-through switch

ETHERNET/IP

Mode	Adapter (slave)
Messages	Implicit and explicit
Max no of scanner connections	1 input/output (exclusive owner) 3 listen only or input only
Input data size	1 448 bytes (with large forward open)
Output data size	1 448 bytes (with large forward open)
Network redundancy	Device Level Ring (DLR), beacon-based
Quick connect	Class B
Certification	Pending

<b>Minimum cycle time</b>	1 ms for class 1 connections, 100 ms for class 3 connections
<b>EDS File</b>	Available

**MODBUS TCP**

<b>Mode</b>	Server
<b>Max number of connections</b>	4
<b>Input data size</b>	1 500 bytes
<b>Output data size</b>	1 500 bytes

**CERTIFICATIONS AND STANDARDS**

<b>UL</b>	cULUSfile number E214107
<b>CE</b>	2014/30/EU
<b>KC</b>	R-R-ABJ-Communicator
<b>EMC</b>	EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-6-4 EN 55032
<b>Environment</b>	IEC 60068-2-1 Ab IEC 60068-2-2 Bb IEC 60068-2-1 Ab IEC 60068-2-2 Bb IEC 60068-2-14 Nb IEC 60068-2-30 Db IEC 60068-2-78 Cab IEC 60068-2-78 Cab
<b>Vibration and shock</b>	IEC 60068-2-27 IEC 60068-2-6
<b>Waste certification</b>	WEE

**CONFIGURATION**

<b>Configuration software</b>	Web based configuration
<b>Configuration ports</b>	Dedicated 10/100 Mbit RJ45 Ethernet configuration port and Ethernet ports

**SECURITY**

<b>Secure boot</b>	Ensures software authenticity
<b>Security switch</b>	Physical switch that enable/disable access to the web based configuration interface

**PRODUCT PACKAGING**

<b>Content</b>	Gateway, power connector, start-up guide, compliance information sheet
<b>Box material</b>	Cardboard

**MEAN TIME BETWEEN FAILURE**

<b>MTBF</b>	> 1500000 h, Telcordia Method I Case 3 at 30° C
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Ordering Information

**ORDER CODE:** ABC4011

**WARRANTY:** 3 years

For purchasing instructions and terms and conditions, see: [How to buy](#)

