



# HazPAC R9 8.4" Touchscreen Computer for Industrial Hazardous Areas

**Part:** H95101-8R | **Model:** HazPAC R9-8.4

The HazPAC® R9-8.4 is a Class I, Division 2; ATEX Zone 2 touchscreen computer for hazardous areas.

The HazPAC R9-8.4 combines a powerful RISC-based computer, bright, 8.4" widescreen LCD display, and resistive touchscreen to create a flat panel computer perfect for a wide variety of HMI and control applications. The system provides intuitive operator input using a resistive touchscreen interface that is perfect for a wide variety of industrial applications and environments.

For increased durability, the touchscreen features a glass surface that is waterproof, abrasion/scratch resistant, and impervious to flames, chemicals, solvents, and stylus use. Featuring an industrial, LED backlight that gives the LCD extended life over CCFT-backlit models, the system offers an amazing -30°C to 60°C operating temperature range with no heaters or cooling fans required.

Powered by a 400 MHz ARM9 microprocessor, the system includes 128 MB RAM and 256 MB Flash memory for maximum performance in embedded systems. Standard I/O includes Ethernet, serial, USB, and digital interfaces. The system is powered from your 9-30VDC source or select from a variety of Sealevel power supply options.

The HazPAC R9-8.4 is intended for panel mount applications and provides an aluminum front bezel that maintains NEMA 4/IP65 protection from sprayed liquids. The system carries the ETL electrical safety mark and is tested and certified for use in hazardous locations classified as Class 1, Division 2 (Groups A, B, C, D T5). Additionally, the system is certified in accordance with the European ATEX directive and IECEx scheme requirements for use in Zone 2 classified areas.

Local or remote I/O expansion is available using Sealevel Seal/O modules. Choose from a variety of I/O configurations including optically isolated inputs, Reed and Form C relay outputs, TTL interfaces, A/D, and D/A. The HazPAC R9-8.4 connects to Seal/O modules via the RS-485 expansion port and communicates using Modbus RTU.

Microsoft Windows CE 6.0 R3 and low-level hardware drivers for system I/O are factory-installed to provide the fastest time to market. Additionally, the HazPAC R9 software package is equipped with the Sealevel Talos I/O framework, which offers a high-level object-oriented .NET Compact Framework (CF) device interface. This interface provides an I/O point abstraction layer with built-in support for easily interfacing the system's I/O.

## Features & Specifications

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### Features

- 8.4" 400 nit TFT LCD with LED backlight
- Durable resistive touchscreen with glass surface is abrasion and scratch-resistant
- Atmel AT91SAM9G45 ARM® 400 MHz processor
- Includes 128MB SDRAM and 256MB flash memory
- (1) 10/100 BaseT Ethernet port
- (2) USB 2.0 host ports
- (1) USB device port
- (8) open collector digital outputs
- (2) Isolated RS-485 serial ports
- (1) Dedicated RS-485 serial port via RJ45 connector
- (1) RS-232 serial port
- NEMA 4/IP65 front bezel
- 9-30VDC input power via removable terminal block
- Microsoft Windows CE 6.0 R3 and low-level hardware drivers for system I/O are factory installed
- Wide -30°C to 60°C operating temperature range
- Class 1, Div 2; Zone 2, ETL, CE, and FCC Class A ratings

### Specifications

<b>Max RAM</b>	128 MB
<b>Family</b>	HazPAC
<b>Certifications</b>	CE, FCC/IC Class AETL Class I, Div 2ATEX, IECEx Zone 2
<b>Contrast Ratio</b>	600:1
<b>CPU Type</b>	Atmel ARM9
<b>CPU</b>	Atmel (AT91SAM9G45) – 400 MHz RISC
<b>Dimensions</b>	11.0" (L) x 9.0" (W) x 2.8" (H)
<b>Approximate Weight</b>	~12 lbs
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Brightness</b>	400 Nit
<b>Operating Temperature</b>	-30°C to 60°C (-22°F to 140°F)
<b>Power Requirement</b>	9-30 VDC @ 15 W Max (9 W Nominal)
<b>Native Resolution</b>	640x480 @ 60 Hz
<b>Screen Size</b>	8.4" LCD
<b>Storage Temperature</b>	-40°C to 80°C (-40°F to 176°F)
<b>Touchscreen</b>	Yes
<b>Touchscreen</b>	Resistive (Glass Surface)
<b>Viewable Size</b>	8.4" Diagonal