

SeaPAC-1420 8.4" Touchscreen Flat Panel Computer for Industrial Environments

Part: S1420-8R | Model: SeaPAC-1420-8.4R

The SeaPAC-1420-8.4R combines Sealevel's Relio R1420 embedded computer with a bright 8.4" TFT LCD and resistive touchscreen to create a powerful, ultra-reliable flat-panel computer system. Powered by a 1.6GHz Intel Atom® N450 CPU, the system includes 2GB of RAM and offers a variety of standard I/O including dual Gigabit Ethernet, six USB 2.0 ports, four serial ports, 8-bit GPIO, and audio output. The HMI system is perfect for a variety of operator interface, data acquisition, and process control applications.

SeaPAC systems can operate from optional CompactFlash. An optional 2.5" SATA solid-state disk (SSD) can be integrated and preloaded with Microsoft Windows or Linux operating systems. Designed to operate over a wide 0°C to 50°C ambient temperature range, the fanless design offers the ultimate in reliability with no moving parts. The SeaPAC-1420-8.4R is powered from an included 100-240VAC to 12VDC external power supply.

Designed for panel mount installation, the front bezel is NEMA 4/IP65 rated and can withstand sprayed water, humidity and extreme dust. The durable resistive touchscreen provides excellent accuracy and works with a stylus or gloved hand.

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 SeaPAC connects to Seal/O modules via the system's RJ45 port and communicates using RS-485 Modbus RTU or Sealevel's SeaMAX API software libraries.

The modular design allows for maximum up-time with easy field maintenance and upgrades of the Relio computer and I/O without removing the LCD assembly from the panel.

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Features & Specifications SeaPAC-1420 8.4" Touchscreen Flat Panel Computer for Industrial Environments

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System Features Overview	Specifications	
 Bright 450 Nit 8.4" TFT LCD Durable resistive touchscreen with RS-232 controller Designed for panel mount installation NEMA4/IP65 Protection from sprayed liquid, humidity and dust Silent solid-state design with no fans or other moving parts System includes 1.6GHz Intel Atom N450 processor and 2GB RAM Maximum 2GB DDR2 667MHz RAM, 200-pin SODIMM (2GB Installed) Solid-state operation using optional CompactFlash or Solid-State Disk (SSD) CompactFlash module and 2.5" drive bay are accessible without opening the enclosure 	BIOS	AMI 16 Mbit Flash
	Family	SeaPAC
	Brightness	450 Nit
	Contrast Ratio	600:1
 Integrated Intel Gen 3.5+ GFX Core graphics supports SXGA resolution up to 1400×1050 @ 75Hz (Native LCD resolution of 800×600 @ 60Hz) RJ45 Modbus RTU RS-485 pass-through port (supports N-series Seal/O 	СРИ Туре	Intel Atom
expansion modules) 2-position removable screw terminal for system power 4-position removable screw terminal for 2-wire RS-485 interface Includes desktop power supply (100-240VAC to 12VDC @ 4.0A 48W 	CPU	1.6GHz Intel Aton N450
	Approximate Weight	~8 lbs
 max) with attached terminal block for computer and barrel connector for flat panel monitor Wide temperature operation from 0 – 50C ambient 	Extended Temperature	Call for Options
Enclosure Bottom	Humidity Range	10 – 90% Relative Humidity, Non- Condensing
 Two 10/100/1000BaseT RJ45 (Intel 82567V, 82583V) Gigabit Ethernet ports with status LEDs One DB9M serial port (COM1, RS-232) 	Max RAM	2GB DDR2 667MHz (Installed)
 Six USB 2.0 ports (Four use high-retention connectors) 8-bit general purpose I/O (GPIO) available on 10-position removable terminal block 	Operating Temperature	0°C to 50°C (32°F to 122°F)
 One analog VGA DB15 connector Type I/II CompactFlash bay accessible via removable plate LED status indicators for power and disk activity Recessed Reset switch 	Power Requirement	12VDC
	Native Resolution	800×600 @ 60Hz
 Enclosure Left Side Three DB9M serial ports (COM2 = RS-232/422/485, COM3,4 = RS-232) COM2 port accessible via DB9F (RS-232), RJ45 port (RS-422/485), or removable terminal blocks (RS-422/485) Termination and biasing dipswitches for RS-485 port Stereo audio out via standard 1/8" speaker connector 	Screen Size	8.4" LCD
	Storage Temperature	-10°C to 60°C (14°F to 140°F)
	Touchscreen	Yes
 Enclosure Right Side Supports 2.5" SATA Solid-State Disk (SSD), accessible via thumbscrews 	Touchscreen	ResistiveRS-232 Controller
System Monitoring and Management	Viewable Size	8.4" Diagonal



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