

## Compact Flat Panel Computer Includes Modbus Development Tools

### PRODUCT HIGHLIGHTS

- 7" 300 nit TFT LCD with LED backlight
- Durable resistive touchscreen
- Atmel AT91SAM9G45 ARM® 400 MHz processor
- Includes 128MB SDRAM and 256MB flash memory
- (1) 10/100 BaseT Ethernet port
- (1) high-retention USB 2.0 host port
- (1) high-retention USB device Port
- (2) Isolated RS-485 serial ports via RJ45 connectors
- NEMA 4/IP65 front bezel
- Includes 100–240 VAC to 5 VDC @ 2.5 A (12.5 W) wall-mount power supply with a locking DC connector that prevents accidental disconnection of the cable.
- Includes Modbus–SSD Software Suite
- Supports Microsoft Windows Embedded CE 6.0 and Linux operating systems
- Wide –30° to +70°C operating temperature range
- ETL, CE, and FCC Class A ratings



The [SeaPAC R9-7R](#) combines a powerful RISC-based processor with a bright 7" TFT LCD to create a wide-temperature, ruggedized, flat panel computer. Featuring an industrial, LED backlight that gives the LCD extended life over CCFT-backlit models, the system offers an amazing –30° to +70°C operating temperature range with no heaters or cooling fans required. Designed for maintenance free operation, the SeaPAC R9-7R is completely solid-state for ultimate reliability. The system ships with Sealevel's Modbus-SSD software suite, making it the ideal controller for distributed control and monitoring networks.

Powered by a 400 MHz ARM9 microprocessor, the system includes 128MB RAM and 256MB Flash memory for maximum performance in embedded systems. Standard I/O includes Ethernet, high-



retention USB and dual RS-485 serial ports. For intuitive operator input, the system offers a resistive touchscreen suitable for a wide variety of industrial environments and uses. The SeaPAC R9-7R includes a 100-240 VAC to 5 VDC @ 2.5 A (12.5 W) wall-mount power supply with a locking DC connector that prevents accidental disconnection of the cable. Additionally, the system can be powered by your 5 VDC source via the COM A (RJ45) port.

The SeaPAC R9-7R is intended for panel mount applications and provides an aluminum front bezel that maintains NEMA 4/IP65 protection from sprayed liquids. The system is tested and certified to ETL electrical safety standards (conforms to EN/UL 61010-1 & CSA C22.2 No 61010-1) and meets CE Low Voltage Directive (2006/95/EC).

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 functionality. The SeaPAC R9-7R connects to Seal/O modules via the RS-485 expansion ports and communicates using Modbus RTU for easy application development.

The included Modbus-SSD software tools are designed to speed development time for industrial applications. Modbus-SSD includes helpful C# example programs and demonstration source code that designers can easily adapt to their specific requirements.

To provide the fastest time to market, the Windows CE 6.0 BSP binary and low-level drivers for system I/O are included. Additionally, the SeaPAC 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. Linux support is also available. The [SeaPAC R9-7R](#) (Item# S96100-7R) is available for \$679.00.

## **ABOUT SEALEVEL SYSTEMS, INC.**

Sealevel Systems, founded in 1986, provides industrial computing solutions in addition to a variety of communications and I/O products including PCI Express and PCI Bus cards, Ethernet serial servers, and USB serial adapters. The product line includes multi-port RS-232, RS-422/485, RS-232/422/485



multi-interface high-speed sync/async, and digital/relay I/O. For more information visit [www.sealevel.com](http://www.sealevel.com) or call 864-843-4343.

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