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 SeaI/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 SeaI/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 or call 864–843–4343.

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