



# SeaPAC R9 7" Touchscreen Computer for Industrial Environments

**Part:** S96100-7R | **Model:** SeaPAC R9-7R

The SeaPAC R9-7R combines a powerful RISC-based computer, bright, 7" widescreen LCD display, and resistive touchscreen to create a flat panel system perfect for a wide variety of HMI and control applications. Featuring an industrial, LED backlight that gives the LCD extended life over CCFT-backlit models, the system offers an amazing -30°C to 70°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, high-retention USB, and dual RS-485 serial ports. For intuitive operator input, the system includes a resistive touchscreen perfect for a wide variety of industrial environments and uses. The system 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 the requirements of all applicable European Commission directives required for CE marking.

Local or remote I/O expansion is available using Sealevel Seal/I/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 R9-7R connects to Seal/I/O modules via the RS-485 expansion ports 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 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.

## Features & Specifications

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#### Features

- 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
- 5 VDC input power via COM A port or Molex 2-pin connector
- Includes 100-240 VAC to 5 VDC @ 2.5 A (12.5 W) wall mount power supply (Item# TR146)
- Microsoft Windows CE 6.0 R3 and low-level hardware drivers for system I/O are factory installed
- Wide -30°C to 70°C operating temperature range
- ETL, CE, and FCC Class A ratings

#### Specifications

<b>Family</b>	SeaPAC
<b>Max RAM</b>	128MB DDR2
<b>Contrast Ratio</b>	500:1
<b>CPU Type</b>	Atmel ARM9
<b>CPU</b>	Atmel (AT91SAM9G45) – 400MHz RISC
<b>Dimensions</b>	8.0" (L) x 5.5" (W) x 1.75" (H)
<b>Approximate Weight</b>	~2 lbs
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Brightness</b>	300 Nit
<b>Power Requirement</b>	5 VDC @ 7.5 W Max (1.5 W Nominal)
<b>Operating Temperature</b>	2500 VAC RMS, 3500 VDC
<b>Input Range</b>	5-30 VDC
<b>Input Impedance</b>	6.2 K Ohms (in series)
<b>Host Interface(s)</b>	Ethernet
<b>Operating Temperature</b>	-30°C to 70°C (-22°F to 158°F)
<b>Native Resolution</b>	800×480 @ 60Hz
<b>Screen Size</b>	7" LCD
<b>Storage Temperature</b>	-40°C to 80°C (-40°F to 176°F)
<b>Touchscreen</b>	Yes
<b>Touchscreen</b>	Resistive
<b>Viewable Size</b>	7" Diagonal