

# Relio™

Embedded I/O Servers



SEALEVEL®

**Relio™ embedded I/O servers** combine the reliability of a PLC with the configurability of an industrial computer and are designed for I/O intensive applications where ruggedness is a must. Relio systems are completely fanless and embedded software runs from CompactFlash, which eliminates hard drives and provides true solid-state operation. Standard Relio systems are available in three form factors: R1000, R2000, and R3000.

## R1000

- > Perfect for applications that require a small footprint or a host for a distributed control system using our SeaI/O data acquisition modules
- > Up to 247 SeaI/O modules can be controlled by the R1000 via RS-485 Modbus RTU providing optically isolated inputs, relay outputs, and TTL interfaces to industry-standard solid-state relay racks
- > Using a VESA mounting adapter, the R1000 and SeaI/O expansion modules mount directly to LCD monitors to create a robust, expandable flat panel computing solution



## R2000

- > Wide range of versatility in I/O configuration
- > Mix and match up to three PC/104 modules that terminate to real-world connectors on rear panel (PC/104 kits offer serial, digital, and analog expansion)
- > Additional expansion location on the front panel for connecting any of Sealevel's SeaI/O modules or a CDRW/DVD



## R3000

- > Designed for use in 19" EIA racks and offers abundant standard I/O with unmatched expansion capabilities
- > Unique I/O plates allow access to PC/104 or SeaI/O connections on both the front and rear
- > Optional CDRW/DVD



### Create a Custom Relio System

The above are standard Relio models, but all three form factors are open and flexible for customization.

We can create the perfect custom Relio system for your application using virtually any processor and I/O configuration.

Call us today to get started.





## Common Configurations

	R1100	R1200	R1300	R2000	R3000
500MHz AMD Geode™ LX800			•	•	•
600MHz ULV Intel® Celeron® M	•			•	•
1.0GHz Intel Celeron M		•		•	•
1.4GHz Intel Pentium® M				•	•
<b>Storage Media</b>	CompactFlash Standard, Optional Hard Drive				
<b>Max RAM</b>	1GB	1GB	512MB	1GB	1GB
<b>10/100 Ethernet Ports</b>	1	1	2	2	2
<b>USB 1.1 / 2.0</b>	2 / 1	2 / 1	0 / 4	2 / 0	4 / 0
<b>Serial Ports<sup>1</sup></b>	2	2	4	2 - 14	4 - 16
<b>External Expansion</b>	Expand Serial, Digital, or Analog Connectivity with Up to 246 SeaI/O Modules <sup>2</sup>				
<b>SeaI/O Internal Expansion</b>	Via External Expansion			1	6
<b>PC/104 Expansion</b>	—	—	—	3	3
<b>Analog Video</b>	1	1	1	1	1
<b>Audio Out</b>	—	—	Yes	Optional	
<b>Printer Port</b>	—	—	1	Optional	1
<b>CD/DVD</b>	Optional (Via USB)			Optional (Internal)	
<b>Operating Systems</b>	Windows XP, XP Embedded, or Linux				
<b>Power</b>	9-30VDC			5VDC	
<b>Size (L x W x H)</b>	7.5" x 5.1" x 1.8"			11.4" x 8.0" x 4.4"	17.0" x 11.0" x 3.5"
<b>Temperature Range</b>	0 to 50°C (Optional Extended Temperature Range Available)				

<sup>1</sup> The number of serial ports can be expanded beyond standard configurations using Sealevel Ethernet and USB serial adapters.

<sup>2</sup> SeaI/O is Sealevel's brand of data acquisition modules. They provide powerful digital, analog, and serial expansion and offer a variety of connection options. SeaI/O modules are available with Reed and Form C relays, optically isolated inputs, TTL interface to industry standard relay racks, A/D, D/A functionality, serial and USB expansion.

### Relio™ Computers Are Designed For Industrial Applications

- > Fanless operation significantly improves reliability in industrial environments
- > Operates from 0 to 50°C (optional extended temperature range available)
- > Rugged metal case and high tolerance for shock, vibration
- > Available with Intel or AMD processors
- > Embedded software can run from CompactFlash providing a true solid-state solution (XP Embedded or Linux). Optional high-temperature hard drives are available for solutions requiring disk storage
- > Versatile I/O selection; custom configuration readily available
- > Long-term availability



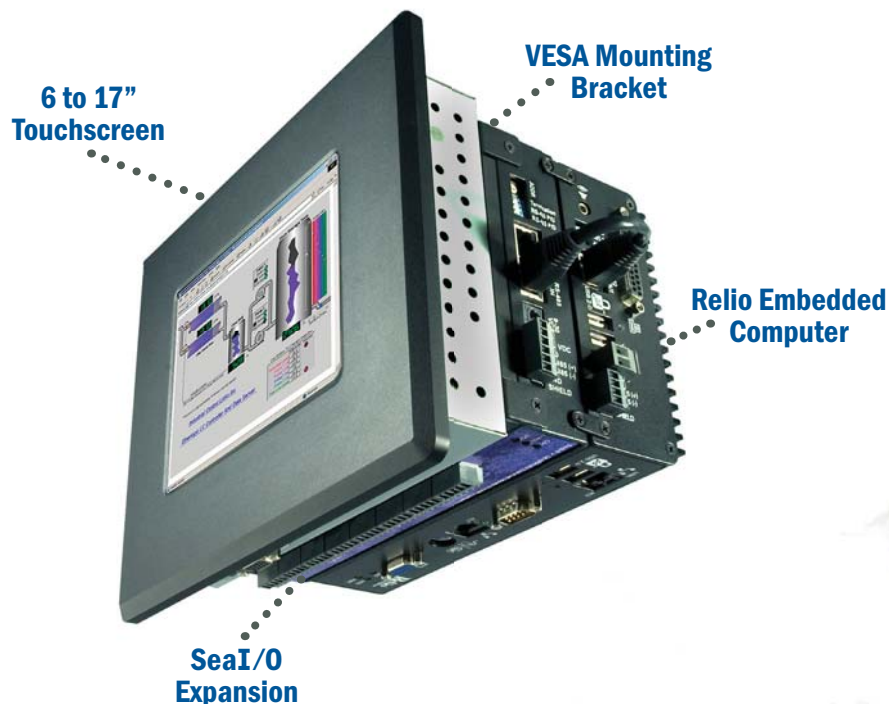
Industrial computing taken to the next level...from Sealevel.

# Breakthrough in Touchscreen Computers

## Modular Design Gives You Custom Configurations at Off-the-Shelf Prices

SeaPAC™ utilizes an innovative modular design. This allows us to assemble virtually unlimited configurations for the price of off-the-shelf units.

You can choose between a variety of processors, screen sizes, and I/O options to *get the exact system you need*. So, choose your touchscreen size, select a Relio™, then add all the I/O connectivity that you need for your solution.



- > Touchscreen displays ranging from 6.4" – 17"
- > Rugged panel mount bezel that provides NEMA 4/IP65 protection from sprayed liquids on the front surface
- > Powered by a high-performance, fanless Relio embedded I/O server
- > Up to 247 SeaI/O modules can be controlled via RS-485 Modbus RTU
- > Modular design allows virtually unlimited configurations, easy field maintenance, and quick upgrade of individual components

We Listen. Think. And Create.

# SEALEVEL®

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