



Relio R4 Configurable 1U Rackmount Industrial Computer

Part: R4-Config | **Model:** Relio R4

The Relio R4 is a fanless, solid-state 1U rackmount computer with no internal cables. The system is ideal for industrial and commercial applications that demand high reliability, I/O expansion, scalable processing, and a long product life cycle.

The R4 builds upon the advantages of the COM Express architecture and features your choice of Intel dual-core processor (Atom N2800 1.8 GHz; Core i3 1.6 GHz; Core i7 1.7 GHz). The Core i3 and Core i7 processor options add support for 64-bit operating systems and up to 16 GB RAM. The rackmount system requires low power consumption while operating fanless over a wide operating temperature range of 0°C to 50°C. A wealth of standard I/O features include dual Gigabit Ethernet, five USB 2.0 ports, three serial ports, DisplayPort video, and audio interfaces. The R4 operates with no moving parts or internal cables, eliminating the most common causes of failure.

Featuring two SeaRAQ™ I/O expansion slots, the Relio R4 offers extra expansion capabilities and supports a variety of real-world analog I/O configurations such as A/D inputs, 4-20mA outputs, 0-20mA inputs, thermocouples, and RTD inputs. Optically isolated inputs, relay outputs, and additional serial interfaces are also available.

The Relio R4 operates from your choice of 2.5" SATA solid-state disk (SSD) that can be integrated and preloaded with Microsoft Windows or Linux operating systems. Operating from solid-state disk, the system is perfect for industrial and commercial rackmount environments including process control, test & measurement, and HMI applications.

Extended temperature range and other options are available. If you have application-specific requirements, call today to discuss a



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Features & Specifications

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Since 1986
Design & Manufacturing Experience
Long-term Availability Guaranteed
Lifetime Warranty

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Features

- 1U rackmount enclosure with powder-coated finish
- Silent solid-state design with no fans, internal cables or other moving parts
- Wide temperature operation from 0-50C ambient
- COM Express Type 6 Module supports Intel dual-core
- Atom, Core i3, and i7 processors
- Up to 16GB DDR3 RAM
- Removable 2.5" solid-state disk (SSD) drive is perfect for industrial applications
- Integrated graphics supporting DirectX and OpenGL 3.x
- Two SeaRAQ expansion slots for optional analog, digital and serial I/O
- Supports ACPI power management

Enclosure Front

- Removable 2.5" solid-state disk (SSD) drive tray
- One high-retention USB 2.0 port
- ED status indicators for power and disk activity

Enclosure Rear

- Two SeaRAQ expansion slots for optional analog, digital and serial I/O
- Two 10/100/1000BaseT RJ45 Gigabit Ethernet ports with status LEDs
- Four USB 2.0 ports
- Three DB9M serial ports (COM1,2 = RS-232, COM3 = RS-485)
- One DisplayPort 1.1 digital video connector (supports optional active analog VGA adapters)
- 18-36 VDC power input locking connector

What's In the Box?

- Relio R4 rackmount computer
- 100-240 VAC to 21 VDC @ 3 A, 63 Watt desktop power supply (Item# TR145), with attached Kycon KPPX-4P connector
- NEMA 5-15P US power cord, 72 inch length (Item# CA248)

Specifications

| | |
|------------------------------|--|
| Family | Relio |
| Max RAM | 16GB ECC DDR3 1333MHz via Two 204-pin SODIMM Slots (Core i3, i7), 4GB DDR3 1066MHz via 204-pin SODIMM Slot (Atom) |
| Max Video | QXGA 2048x1536 @ 60Hz (Core i3, i7), WUXGA 1920x1200 A 60Hz (Atom) |
| Chipset | Intel NM10 Express (Atom), Intel QM77 Express (Core i3, i7) |
| CPU | 1.6GHz Intel Core i3-3217UE Dual-Core, 1.7GHz Intel Core i7-3517UE Dual-Core (Up to 2.8GHz Turbo), 1.8GHz Intel Atom Dual-Core N2800 |
| Dimensions | 19.0" (L) x 8.0" (W) x 1.75" (H) |
| Display Support | DisplayPort 1.1 |
| Expansion Slots | 2 SeaRAQ I/O Slots, One PCI Express Half-Size Mini Card (Internal) |
| Extended Temperature | Call for Options |
| Humidity Range | 10 – 90% Relative Humidity, Non-Condensing |
| USB 2.0 Ports | Four (Rear), One High-Retention (Front) |
| BIOS | AMI Aptio EFI with CMOS Backup in 16MB SPI Flash (Atom), AMI Aptio UEFI (Core i3, i7) |
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Power Requirement | 18-36 VDC (Max. 120W) |
| Serial Ports | Two RS-232, One RS-485 |
| Storage Temperature | -20°C to 80°C (-4°F to 176°F) |