Building on the advantages of COM Express architecture, the R3 features an Intel Atom processor and 4GB RAM. The system offers low power consumption while operating fanless over a wide temperature range of 0 - 50°C. Standard features include dual Gigabit Ethernet, four SeaLATCH locking USB 2.0 ports, three serial ports, DisplayPort video and HD audio interfaces. A 7” LCD touchscreen on the front panel makes operator interface easy.

With a total of 18 SeaRAQ I/O expansion slots, the R3 provides unprecedented expansion capabilities for a variety of real-world analog I/O including voltage inputs, 4-20mA outputs, 0-20mA inputs, thermocouples and RTD inputs. Optically isolated AC and DC digital inputs and relay outputs are also available. The system offers one PCI Express slot compatible with any half-length PCIe X1 board.

The Relio R3 operates from ultra-reliable 2.5” SATA solid-state disk (SSD) that can be integrated and preloaded with Microsoft Windows or Linux operating systems. The system’s COM Express design allows easy technology migration as processor technology evolves. As a result, OEMs can design with the R3 now while refreshing the performance over the life of their product.
**Relio TM R3**

3U Solid-State, Rackmount Industrial Computer

**Specifications**

**Processor Choices**
> 1.8 GHz Intel Atom N2800 Dual Core

**Memory**
> ECC DDR3 1066 MHz , 4GB Max

**Video**
> DisplayPort 1.1
> 1920 x 1200 @ 60Hz

**Communications**
> Dual Gigabit Ethernet
> 4 x USB 2.0 with Locking SeaLATCH Connectors
> 2 x RS-232 Ports
> 1 x RS-485 Port

**Expansion**
> 18 SeaRAQ I/O Expansion Slots
> 1 PCIe Slot Half-length PCI Express

**Power**
> 18 - 36 VDC Input

**Environmental**
> Operating Temperature Range: 0°C – 50°C
> Storage Temperature Range: -20°C – 80°C

**Physical Dimensions**
> 18.97” (L) x 9.58” (W) x 5.22” (H)