

# Relio™ R1

Solid-State, Compact DIN Rail Industrial Computer



## Features

- > Choice of single, dual or quad-core Atom (Bay Trail) processor
- > Up to 8GB DDR3L RAM
- > Dual Gigabit Ethernet
- > 1 x USB 3.0 port; 3 x high-retention, Sealatch locking USB 2.0 ports
- > 2 x Two-wire RS-232 or RS-485 serial ports
- > Choice of digital (DVI-D, HDMI or DisplayPort) and analog (VGA) display options
- > CFast card slot for solid-state storage
- > PCI Express Mini Card expansion slot
- > 18-36 VDC operation
- > Compatible with Windows or Linux
- > Wide Operating Temperature from -40°C to +71°C
- > Optional 802.11 b/g/n wireless interface

The Relio R1 solid-state industrial computer is designed for applications requiring powerful processing, a compact footprint, wide operating temperature, and shock & vibration resistance.

The Relio R1 features up to 8 GB of DDR3L RAM with a choice of Intel quad-core, dual core, or single core Atom processor in a DIN-Rail compatible enclosure. The R1 is Sealevel's most rugged design ever, designed to exceed military shock and vibration requirements.

This solid-state computer achieves an impressive operating temperature range of -40° to +71°C, while requiring low power consumption from your 18-36 VDC source. Standard features include two software-selectable serial ports, dual Gigabit Ethernet, four SeaLATCH locking USB ports, and DVI-D video interfaces. The 802.11 b/g/n dual band wireless network option enables convenient connectivity at data rates up to 300 Mbps. CAN bus 2.0b and GPS options are also available.

The R1 includes the latest CFast SATA II card slot, and your choice of card can be preloaded with Microsoft Windows or Linux operating systems. Mounting options allow secure installation to 35mm DIN-Rail, inside panels, vehicles and even heavy equipment and drilling rigs. The system is perfect for harsh industrial environments including military, oil & gas, transportation, energy, and process control applications.

The COM Express design allows easy technology migration as processor technology evolves. As a result, R1 customers can upgrade the COM module to refresh the performance over the life of their system application.



**SEALEVEL®**

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# Relio™ R1

## Solid-State, Compact Industrial Computer

### Specifications

#### Processor Choices

- > 1.91 GHz Intel Atom E3845 Quad Core
- > 1.46 GHz Intel Atom E3826 Dual Core
- > 1.46 GHz Intel Atom E3815

#### Memory

- > Non-ECC DDR3L 1333 MHz, 8GB (E3845, E3826)
- > Non-ECC DDR3L 1067 MHz, 4GB Max (E3815)

#### Video

- > DVI-D; VGA interfaces
- > 2560 x 1600 @ 60 Hz

#### Communications

- > Dual Gigabit Ethernet
- > 1 x USB 3.0 Locking SeaLATCH Connector (up to 1.5 A)
- > 3 x USB 2.0 High-Retention w/ Locking SeaLATCH Connectors (up to 500 mA / port)
- > 2 x RS-232 or RS-485 Serial Ports
- > Optional 802.11 a/g/n Wireless Interface, or
- > Optional CAN 2.0b Interface

#### Expansion

- > CFast SATA2 Card Slot (Max 256 GB)
- > PCI Express Half-Size Mini Card

#### Power

- > 18 - 36 VDC Input

#### Environmental

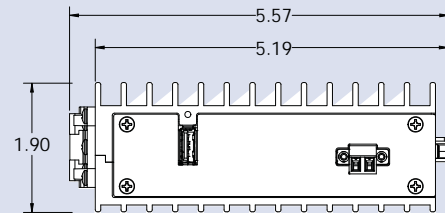
- > Operating Temperature Range:  
-40°C to +71°C or (-40F to +159.8F)
- > Storage Temperature Range:  
-40°C to +85°C or (-40F to +185F)

#### Physical Dimensions

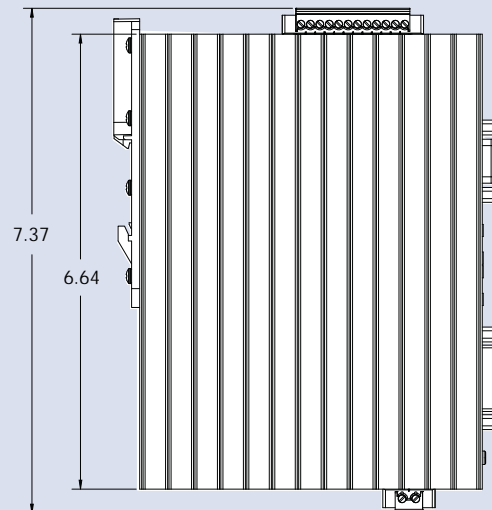
- > 6.64" (L) x 5.19" (W) x 1.90" (H)

### Relio R1 Dimensions

#### Relio R1 Front View



#### Relio R1 Top View



Right



Left



Front

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