Relio™ R2 Sync Server
Solid-state, Compact Computer

Features

> Intel i7, i3 or Atom processor
> Up to 16GB RAM
> 4 x RS-232/422/485/530/530A/V.35 synchronous serial ports
> Dual Gigabit Ethernet
> 2 x USB 2.0 ports
> DisplayPort 1.1
> 18-36 VDC operation
> Compatible with Windows or Linux operating systems
> Solid-state operation from 0°C – 50°C

The Relio R2 Sync Server solid-state computer is designed for applications requiring synchronous communications, small size, powerful processing, and long product life.

The Relio R2 Synch Server combines powerful processing with robust synchronous communications. Choose from i7, i3, or Atom dual core processor models, each offering a wealth of standard I/O. Perfect for radar, satellite, and other military applications, the R2 Sync Server provides four synchronous ports using the popular Zilog Z85230 ESCC. Each synchronous channel is individually configurable for RS-232, RS-422, RS-485, RS-530, RS-530A or V.35.

Relio systems are designed using COM Express architecture, require low power consumption and operate fanless over a wide 0-50°C temperature range. The systems provide long product life cycle and are easily customized to match specific customer I/O requirements.

The R2 Sync Server runs from ultra-reliable 2.5" mSATA solid-state disk (SSD) that can be preloaded with Microsoft Windows or Linux operating systems. Included brackets allow convenient mounting to any flat surface including tabletops, under counters and to walls. The system is compliant with MIL-STD-810 shock and vibration specifications.

SEALEVEL®

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Specifications

Processor Choices
> 1.7 GHz Intel i7-3517UE Dual Core
> 1.6 GHz Intel i3-3217UE Dual Core
> 1.8 GHz Intel Atom N2800 Dual Core

Memory
> ECC DDR3 1333 MHz, 16 GB Max (i7, i3)
> ECC DDR3 1066 MHz , 4 GB Max (Atom)

Video
> DisplayPort 1.1
> 2048 x 1536 @ 60Hz (i7, i3)
> 1920 x 1200 @ 60Hz (Atom)

Communications
> Dual Gigabit Ethernet
> 2 x USB 2.0
> 4 x RS-232/422/485/530/530A/v.35
  synchronous serial ports
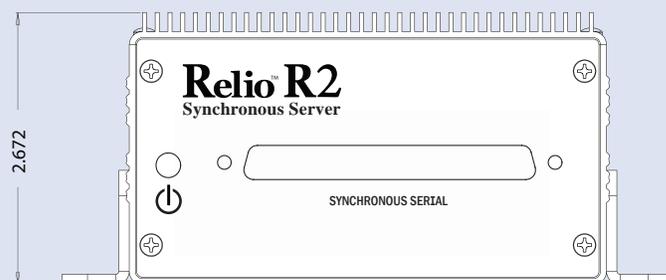
Power
> 18 - 36 VDC Input

Environmental
> Operating Temperature Range: 0˚C – 50˚C
> Storage Temperature Range: -20˚C – 80˚C
> Shock Rating: 20g, 25ms
> Vibration: 2.0 GRMS, 5Hz to 500Hz

Physical Dimensions
> 4.75" (L) x 7.82" (W) x 2.72" (H)

Relio R2 Sync Server Dimensions

Relio R2 Front View

Relio™ R2
Synchronous Server

SYNCHRONOUS SERIAL

2.672

Relio R2 Top View

7.820
6.000
4.000

4.744
5.500
6.000