

Specifications

Analog Inputs and Outputs

Signal Typebalanced
 Nominal Level 8dBu
 Maximum Level..... 20dBu
 Input Impedance 22k Ohm
 Output Impedance.....600 Ohm SNR at 20 dBu:

A/D and D/A

Sampling Rate..... 48 kHz
 Resolution 24 bits

Performance

SNR at 20 dBu: (A-weighted) >90dB
 THD+N at 20dBu, 1 kHz (unweighted)<0.007%
 Frequency Response at 20 dBu..... within ± 1 dB from 50 Hz - 20kHz
 Crosstalk at 20dBu..... <-60 dBu
 CMRR..... >70 dB

NOTE: All measurements performed using an Audio Precision System 1 Dual Domain System at f=1kHz and Level = 20dBu. Measurement bandwidth = 20Hz to 20kHz.

Connections

Intercom Channels (1-32)

Connector Type: 6-pin RJ-12

Pin 1 Control -
 Pin 2 Audio Out +
 Pin 3 Audio In +
 Pin 4 Audio In -
 Pin 5 Audio Out-
 Pin 6 Control +

Serial Interface Port (J1 - J6)

Connector Type: 9-pin female D-sub

J1: RS-232 (AZedit)

Pin 1 Not Used
 Pin 2 GND
 Pin 3 Input RS-232
 Pin 4 Not Used
 Pin 5 Not Used
 Pin 6 Not Used
 Pin 7 GND
 Pin 8 Output RS-232
 Pin 9 Not Used

J2: RS-232 (Debug)

Pin 1 Not Used

Pin 2 Input RS-232
 Pin 3 Output RS-232
 Pin 4 Not Used
 Pin 5 GND
 Pin 6 GND
 Pin 7 Not Used
 Pin 8 Not Used
 Pin 9 Not Used

J3: RS-232/RS-485 (J3 is trunking)

Pin 1 RS-485- / RS-485 +
 Pin 2 GND
 Pin 3 Not Used
 Pin 4 Not Used
 Pin 5 Output RS-422+
 Pin 6 RS-485- / RS-485 +
 Pin 7 GND
 Pin 8 Not Used
 Pin 9 Output RS-422 -

J4: RS-232/RS-485 (J4 is for peripheral devices, such as UIO-256, PAP-32)

Pin 1 RS-485- / RS-485 +
 Pin 2 GND
 Pin 3 Not Used
 Pin 4 Not Used
 Pin 5 Output RS-422+
 Pin 6 RS-485- / RS-485 +
 Pin 7 GND
 Pin 8 Not Used
 Pin 9 Output RS-422 -

J5: RS-485 (J5 is PAP-32)

Pin 1 RS-485 -
 Pin 2 GND
 Pin 3 Not Used
 Pin 4 Not Used
 Pin 5 Not Used
 Pin 6 RS-485 +
 Pin 7 GND
 Pin 8 Not Used
 Pin 9 Not Used

J6: RS-232 (J6 is undefined)

Pin 1 RS-485 -
 Pin 2 GND
 Pin 3 Not Used
 Pin 4 Not Used
 Pin 5 Not Used
 Pin 6 RS-485 +
 Pin 7 GND
 Pin 8 Not Used
 Pin 9 Not Used

USB Connectors (front end and back end J7)

Connector TypeStandard USB

Ethernet Interface Port (J8)

Connector TypeRJ-45 standard
10 base-T (Cat 3) /
100 Base Tx (Cat5)

GPIO Interface Port (J9)

Connector Type: 25-pin Female D-sub

Pin 1..... Input 1
Pin 2..... Common
Pin 3..... Input 2
Pin 4..... Common
Pin 5..... Input 3
Pin 6..... Common
Pin 7..... Input 4
Pin 8..... Common
Pin 9..... GND
Pin 10..... GND
Pin 11..... GND
Pin 12..... +5 V
Pin 13..... +5 V
Pin 14..... Relay 1 NC
Pin 15..... Relay 1 NO
Pin 16..... Common
Pin 17..... Relay 2 NC
Pin 18..... Relay 2 NO
Pin 19..... Common
Pin 20..... Relay 3 NC
Pin 21..... Relay 3 NO
Pin 22..... Common
Pin 23..... Relay 4 NC
Pin 24..... Relay 4 NO
Pin 25..... Common

NOTE: The pin-out of this connect does not confirm to the standard pin-out of Zeus, Zeus II, ADAM CS, or ADAM and cannot be directly connected to the GPI connector of the RVON I/O. **It requires a custom cable assembly.**

Hotlink Connectors

Coax Type (J10 - J11)..... RG6 BNC Female
..... 75 Ohm coax connector
Fiber Optic Type HFCT-5208M
(single mode transceiver)
- 1300 nm laser based
transceiver in standard 1 x 9
mezzanine package for links
of 15km nominal with single
mode fiber cables.

The fiber cable recommended for Cronus Single mode SM SC-SC Duplex type. Two SC-SC simplex pair will work, but you will have to verify which end to connect to each other.

Physical

Dimensions..... 19w x 3.5h x 14 deep
(482.6mm x 88.9mm x 355.6mm)
Weight 14.15lbs (6.41 kilograms)

Environment

Operating..... 0°C to 50°C (32°F to 122°F)
Storage -20°C to 75°C (-4°F to 167°F)+

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