

SOLARO XIO 16

Create centralized processing designs that utilize high-channel-counts with Solaro XIO 16, a 16-card-slot input/output expander for Solaro FR1-D processors. Compatible with any Solaro Series I/O card, Solaro XIO 16 enables a Solaro FR1-D processor to handle channels in excess of its local capabilities, allowing large applications to use a single Solaro FR1-D for site-wide processing. Solaro XIO 16 provides 32×32 Dante networking channels for the transport of audio between itself and Solaro FR1-D, and is housed in a standard 1U 19-inch rack-mountable chassis. Solaro XIO 16 is ETL (US/CA) listed, CE marked and covered under the Xilica Five Year Limited Warranty.

BENEFITS

- › Create large centralized processing systems with a single Solaro FR1-D by expanding local I/O count through a Solaro XIO 16 expander.
- › Benefit from modular capabilities that enable expansion across analog audio, USB audio, GPIO, relay and AES/EBU.
- › Primary and secondary Dante capabilities with 32×32 channels and AES67 compliance.
- › ETL (US/CA) listed, CE marked and covered under the Xilica Five Year Limited Warranty.

ENGINEERING SPECIFICATIONS

The device shall feature 16 user-configured card slots capable of accepting any Solaro Series I/O card, and transmit these channels over a standard Ethernet network using the Dante networking protocol. The device shall offer 32×32 Dante networking channels to facilitate such expansion. It shall be housed in a standard 1U 19-inch chassis, capable of rack-mounting, and be powered through a mains supply over IEC cable. The device shall feature an OLED screen for status and network indication. The device shall be ETL listed (US/CA), CE marked, and comply to Industry Canada (ICES-0003:6), RoHS, and FCC Part B standards. The device shall be the Solaro XIO 16.

TECHNICAL SPECIFICATIONS

Electrical

THD+N (22Hz to 22kHz)	0.002% (1kHz @ +4dBu)
EIN	<125dBu, unweighted (20Hz to 20kHz)
Dynamic Range	110dB, unweighted
Propagation Delay	4ms
Crosstalk, input to input, 1kHz	<110dB
Sampling Rate	48kHz
A/D-D/A Converters	32-bit
BTU/Heat Load	205 BTU/hr
Processor Type	40-bit floating point
Phantom Power	+48VDC (with XC-SML)
Power Supply	90–240 VAC (50–60Hz) via internal power supply with IEC socket
Power Consumption	<60W
Ambient Operating Temperature	32–104°F (0–40°C)
Humidity	0–98%, non-condensing
Altitude	0–6,600 feet (0–2000 Meters) MSL
Network Connections	3x RJ45 (≥Cat 5e) including dual dedicated 1000Mbps Dante™ connections and separate Ethernet port for data
USB (with XC-SUB)	<i>Bit depth:</i> 16-bit <i>Number of channels:</i> 2×2, send and receive <i>Driver sample rate:</i> 48kHz <i>Card sample rate:</i> follows DSP settings <i>Connector:</i> USB B, female
Dante™	32×32 bi-directional (primary, secondary) with dual NIC; AES67

Mechanical

Card Slots	16 user-configurable
Display(s)	Single OLED display at front of device
Controls, Service & Indicators	Up/Select/Down buttons. Recessed IP reset. Factory service micro-USB.
Weight	11lbs; 5kg
Dimensions	Height: 1.75" / 44mm Width: 19" / 483mm Depth: 12" / 305mm
Mounting	Standard 19" rack; occupies 1U

General

Compliance	CE, FCC Part 15B, Industry Canada ICES-003:7, Intertek ETL (US, CA), RoHS, REACH
Warranty	Xilica Five Year Limited Warranty
Part Number(s)	2200-001-0402

Specifications, where necessary, measured with XC- I/O card.