

XIt2501

PMC I/O Module (PIM) with Gigabit Ethernet, SATA, USB, Serial, and Mini DisplayPort

- ▶ XIM/PIM module
- ▶ Two 10/100/1000BASE-T Ethernet ports to RJ-45 connectors
- ▶ Two RS-232 serial ports to micro-DB-9 connectors
- ▶ Four USB 2.0 ports
- ▶ Two SATA ports
- ▶ Mini DisplayPort interface



XIt2501

The XIt2501 is a PMC I/O Module (PIM), per the VITA 36 specification, which supports various X-ES XMC/PrPMC products. When installed on the appropriate carrier, such as the XTend3100 or XIt1003, the XIt2501 routes I/O signals from an associated XMC/PrPMC's rear panel P14 and P16 connectors to allow connection of these signals to external equipment.

The XIt2501 breaks out 10/100/1000BASE-T Ethernet, RS-232 serial, SATA, USB, and video signals to the appropriate connectors located on the front panel and rear surface of the card.

X-ES

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Ethernet

- Two 10/100/1000BASE-T Ethernet ports to RJ-45 connectors

Serial

- Two RS-232 serial ports to micro-DB-9 connectors
- RS-422/485 conversion (optional)

SATA

- Two SATA ports to internal vertical SATA connectors

USB

- One USB 2.0 port to front panel Type Mini-AB connector
- Three USB 2.0 ports to internal vertical Type A connectors

Video

- One Dual-Mode DisplayPort interface to Mini DisplayPort connector

Physical Characteristics

- PMC I/O Module (VITA 36)
- Dimensions: 74 mm x 69 mm

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C (maximum)
Vibration	0.002 g ² /Hz (maximum), 5 to 2000 Hz	0.04 g ² /Hz (maximum), 5 to 2000 Hz	0.1 g ² /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing

