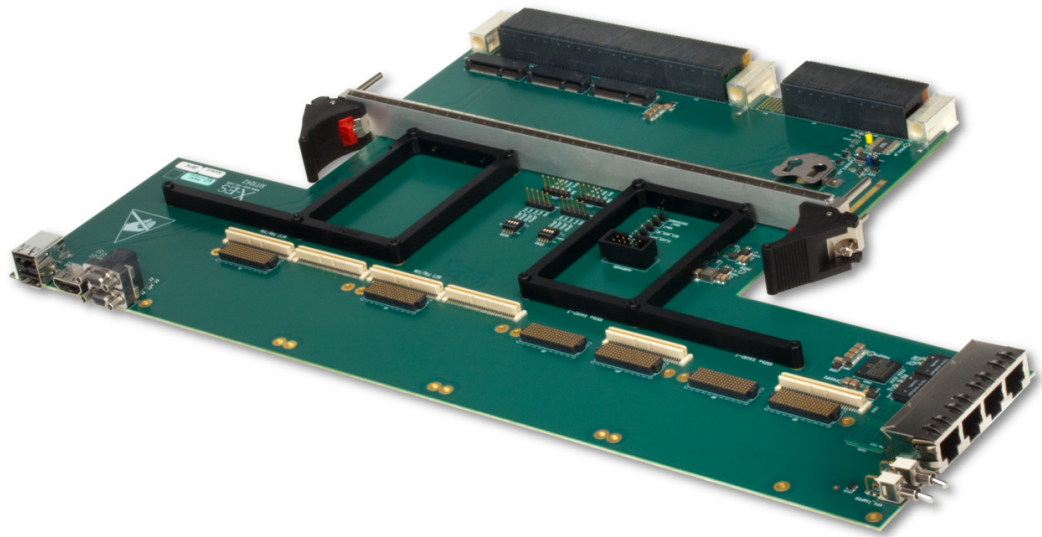


XIt1042

6U VPX Rear Transition Module with Gigabit Ethernet, SATA, USB, Serial, and HDMI

- ▶ 6U VPX Rear Transition Module (RTM)
- ▶ Four 10/100/1000BASE-T Ethernet ports (two are 10GBASE-T-capable)
- ▶ Four 10GBASE-T Ethernet ports via dataplane breakout modules
- ▶ Three RS-232/422/485 serial ports
- ▶ Two USB 2.0 ports
- ▶ Four SATA ports
- ▶ Two XIM/PIM sites
- ▶ One HDMI port



XIt1042

The XIt1042 is a 6U VPX Rear Transition Module (RTM), which supports I/O breakout from select X-ES 6U VPX SBCs. When installed in an RTM slot of an appropriate 6U VPX backplane, the XIt1042 routes I/O signals from an associated SBC's rear panel P1 and P3-P6 connectors through the VPX backplane to connectors on the XIt1042 to allow connection of these signals to external equipment.

The XIt1042 routes four Ethernet ports to RJ-45 connectors, three RS-232/422/485 serial ports to micro-DB-9 connectors, two USB 2.0 ports to USB Type A connectors, and four SATA ports to mSATA connectors. XIM/PIM sites are also provided for breakout of the mezzanine's Pn4/Pn6 I/O to the XIt1042's front panel via the appropriate XIM/PIM module.

Two dataplane breakout sites connect four x4 fat pipes from the P1 connector to breakout modules that convert the signals to standard connectors. This facilitates rapid prototyping of complex system topologies using standard, off-the-shelf equipment.

X-ES

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Ethernet

- Four 10/100/1000BASE-T Ethernet ports to RJ-45 connectors (two are 10GBASE-T-capable)

Serial

- Three RS-232/422/485 serial ports to micro-DB-9 connectors

USB

- Two USB 2.0 ports to USB Type A connectors

SATA

- Four SATA ports to mSATA connector

Video

- One DVI-D/HDMI port to HDMI connector

Dataplane Breakout

- Two dataplane breakout sites
- Four 10GBASE-T Ethernet ports to RJ-45 connectors via XIt3000 breakout modules (optional)

XIM/PIM Support

- Two XIM/PIM sites
- P64s+X12d+X8d support

Physical Characteristics

- 6U VPX Rear Transition Module (RTM)
- Overall dimensions: 232 mm x 407 mm. Please contact factory for exact T-shaped dimensions by side.
- 1.0 in. pitch

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 †	-40 to +70°C ambient †	-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

† Contact factory for airflow rate details.

