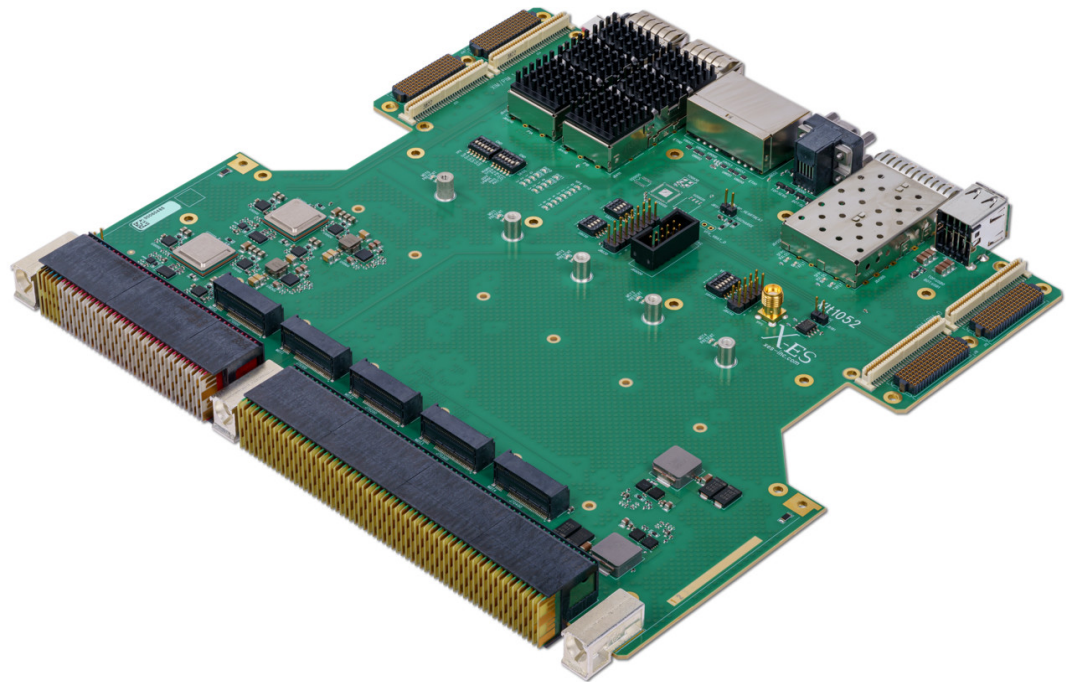


XIt1052

6U VPX Rear Transition Module with 40 Gigabit and 10 Gigabit Ethernet, USB, Serial, and XIM/PIM Sites

- ▶ 6U VPX Rear Transition Module
- ▶ Two SFP+ connectors for two 1000BASE-KX Ethernet ports
- ▶ Two QSFP+ connectors for two 40GBASE-KR4 Ethernet ports or eight 10GBASE-KR Ethernet ports
- ▶ Two USB 2.0 ports
- ▶ Two micro-DB-9 connectors for two RS-232/422/485 serial ports
- ▶ Two RJ-45 connectors for two 10/100/1000BASE-T Ethernet ports
- ▶ Five M.2 sites to support five x4 PCI Express interfaces
- ▶ Two XIM/PIM sites to support X8d, X12d, and P64s breakout
- ▶ Headers and toggle switches for GPIO, interrupt, and reset inputs
- ▶ Fits in VITA 46.10 RTM slots
- ▶ 1.0 in. pitch



XIt1052

The XIt1052 provides I/O expansion for Intel® Xeon® D-1700 and D-2700 series (formerly Ice Lake-D) processor-based 6U VPX single board computers (SBCs). Its elongated design fits in VITA 46.10 RTM slots and allows for convenient access to more I/O connectors than standard VITA 46.10 RTMs.

The XIt1052 features two SFP+ connectors for two 1000BASE-KX Ethernet ports, plus two QSFP+ connectors that can be configured for either two 40GBASE-KR4 Ethernet ports or eight 10GBASE-KR Ethernet ports. Two RJ-45 connectors support a pair of 10/100/1000BASE-T Ethernet ports. The XIt1052 also supports two RS-232/422/485 serial ports and two USB 2.0 ports.

Two XIM/PIM sites allow for access to the P64s signals from P3 and P5 and access to the X8d and X12d signals from P4 and P6. Optional XIM trays can be installed to support XIM/PIM modules (contact factory for details). Multiple M.2 sites can support up to five x4 PCI Express interfaces.

X-ES

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Extreme Engineering Solutions

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Back Panel I/O

- Two SFP+ connectors for two 1000BASE-KX Ethernet ports
- Two QSFP+ connectors for two 40GBASE-KR4 Ethernet ports or eight 10GBASE-KR Ethernet ports
- Two USB 2.0 ports
- Two micro-DB-9 connectors for two RS-232/422/485 serial ports
- Two RJ-45 connectors for two 10/100/1000BASE-T Ethernet ports
- Two XIM/PIM sites to support X8d, X12d, and P64s breakout

Internal I/O

- Five M.2 sites to support five x4 PCI Express interfaces
- GPIO header

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

Physical Characteristics

- 6U VPX RTM form factor
- Fits in VITA 46.10 RTM slots
- Overall dimensions: 233.20 mm x 212.28 mm (does not include backplane connectors)
- 1.0 in. pitch

Ruggedization Level	Level 1
Cooling Method	Standard Air-Cooled
Operating Temperature	0 to +55°C ambient †
Storage Temperature	-40 to +85°C ambient
Vibration	0.002 g ² /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth
Humidity	Up to 95% non-condensing

† Contact factory for airflow rate details.

