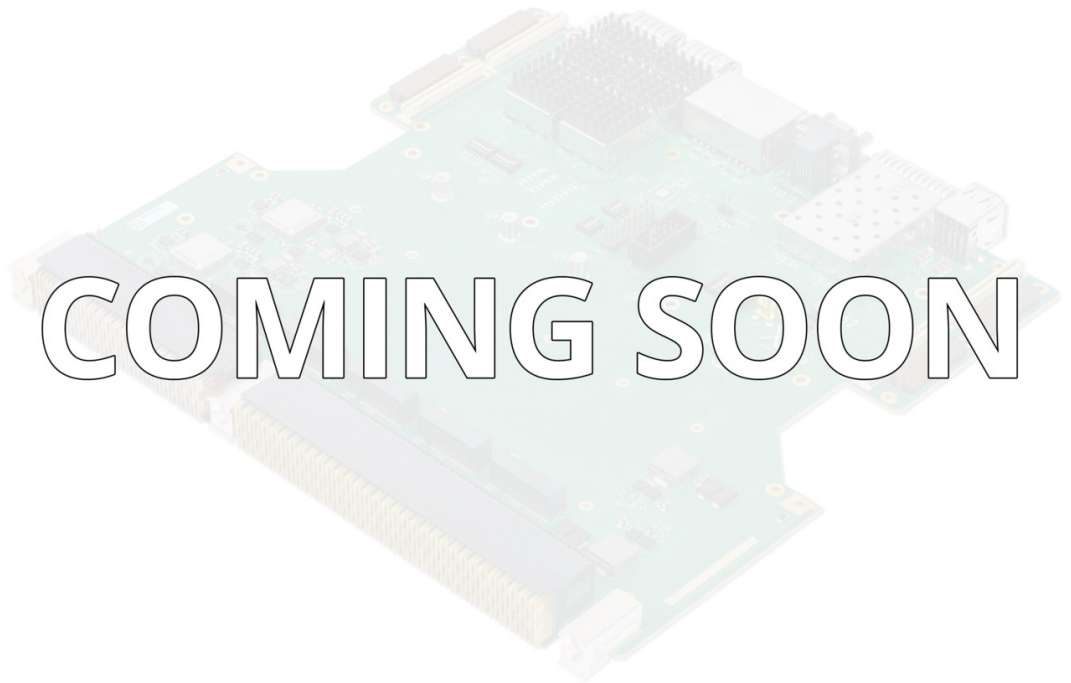


XIt1055

6U VPX Rear Transition Module with 100 and 25 Gigabit Ethernet, USB, Serial, DisplayPort, and XIM/PIM Sites

- ▶ 6U VPX Rear Transition Module
- ▶ One QSFP connector for one 100GBASE-KR4 Ethernet port
- ▶ Two SFP+ connectors for two 25BASE-KR Ethernet ports
- ▶ Two RJ-45 connectors for two 10/100/1000BASE-T Ethernet ports
- ▶ Four micro-DB-9 connectors for four RS-232 serial ports or two RS-232 and one RS-422/485 serial ports
- ▶ Two USB 2.0 ports
- ▶ One DisplayPort 1.4 interface
- ▶ Three M.2 sites to support two x4 and one x2 PCI Express Gen4-capable interfaces
- ▶ Two XIM/PIM sites to support X24s+X12d+X8d and P64s breakout
- ▶ Headers and toggle switches for GPIO, interrupt, and reset inputs
- ▶ Fits in VITA 46.10 RTM slots
- ▶ Supports SBCs aligned to the SOSA Payload (XMC) profile (SLT6-PAY-4F1Q1H4U1T1S1S1TU2U2T1H-10.6.3-0)
- ▶ 1.0 in. pitch



XIt1055

The XIt1055 provides I/O expansion for Intel® Core™ Ultra (Series 3) (formerly Panther Lake) processor-based 6U VPX single board computers aligned to the Sensor Open System Architecture (SOSA) Payload (XMC) profile, such as the XCalibur5340. 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 XIt1055 features one QSFP connector for one 100GBASE-KR4 Ethernet port and two SFP+ connectors for two 25GBASE-KR Ethernet ports. Two RJ-45 connectors support a pair of 10/100/1000BASE-T Ethernet ports. The XIt1055 also supports four RS-232 serial ports (or two RS-232 and one RS-422/485 serial ports) and two USB 2.0 ports, plus a DisplayPort 1.4 interface.

Two XIM/PIM sites allow for access to the P64s signals from RP3 and access to the X24s+X12d+X8d signals from RP5 and RP6. Optional XIM trays can be installed to support XIM/PIM modules (contact factory for details). Multiple M.2 sites can support up to three PCI Express interfaces.

X-ES

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Extreme Engineering Solutions

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Back Panel I/O

- One QSFP connector for one 100GBASE-KR4 Ethernet port
- Two SFP+ connectors for two 25BASE-KR Ethernet ports
- Two RJ-45 connectors for two 10/100/1000BASE-T Ethernet ports
- Four micro-DB-9 connectors for four RS-232 serial ports or two RS-232 and one RS-422/485 serial ports
- Two USB 2.0 ports
- One DisplayPort 1.4 interface
- Two XIM/PIM sites to support X24s+X12d+X8d and P64s breakout

Internal I/O

- Three M.2 sites to support two x4 and one x2 PCI Express Gen4-capable interfaces
- GPIO header
- LVDS interface

Environmental Requirements

- Contact factory for appropriate board configuration based on environmental requirements.
- Conformal coating available as an ordering option

Physical Characteristics

- 6U VPX RTM form factor
- Fits in VITA 46.10 RTM slots
- Supports SBCs aligned to the SOSA Payload (XMC profile (SLT6-PAY-4F1Q1H4U1T1S1S1TU2U2T1H-10.6.3-0))
- Overall dimensions: 233.20 mm x 212.28 mm (does not include backplane connectors)
- 1.0 in. pitch

