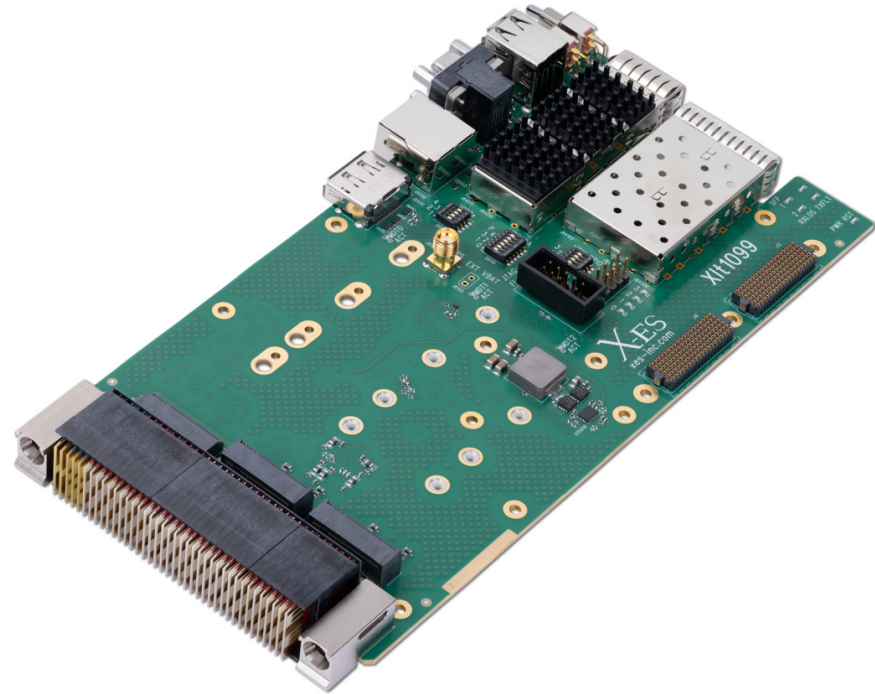


# XIt1099

3U VPX Rear Transition Module with 40 Gigabit and 10 Gigabit Ethernet, USB, Serial, DisplayPort, and XIM Site

- ▶ 3U VPX Rear Transition Module
- ▶ Two SFP+ connectors for two 10GBASE-KR Ethernet ports
- ▶ One zQSFP+ connector for one 40GBASE-R Ethernet port
- ▶ Two USB 2.0 ports
- ▶ Two micro-DB-9 connectors for two RS-232 serial ports or one RS-422/485 serial port, plus a SOSA maintenance console port
- ▶ One RJ-45 connector for one 10/100/1000BASE-T Ethernet port
- ▶ One M.2 site to support one x4 PCI Express Gen4-capable interface
- ▶ One M.2 site to support one x2 PCI Express Gen3-capable interface
- ▶ One XIM site to support X8d+X12d+X16s breakout
- ▶ One DisplayPort interface
- ▶ Headers and toggle switches for GPIO, interrupt, and reset inputs
- ▶ Fits in VITA 46.10 RTM slots
- ▶ VITA 66.4 support (optional, contact factory for details)
- ▶ 1.0 in. pitch



## XIt1099

The XIt1099 provides I/O expansion for the XPedite8270 3U VPX single board computer (SBC) based on the 13th Gen Intel® Core™ i7 series (formerly Raptor Lake-P) line of processors. 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 XIt1099 features two SFP+ connectors for two 10GBASE-KR Ethernet ports, plus a zQSFP+ connector for one 40GBASE-R Ethernet port. An RJ-45 connector supports one 10/100/1000BASE-T Ethernet port. The XIt1099 also supports two USB 2.0 ports. Two micro-DB-9 connectors allow for two RS-232 serial ports or one RS-422/485 serial port, plus a SOSA maintenance console port. A DisplayPort interface is also available.

One XIM site allows for access to the X8d+X12d+X16s signals from P1 and P2. An optional XIM tray can be installed to support XIM modules; contact factory for details. A pair of M.2 sites support one x4 PCI Express interface, with PCB routing and connectors for up to Gen4 speeds, and one x2 PCI Express interface, with PCB routing and connectors for up to Gen3 speeds.

# X-ES

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sales@xes-inc.com • <https://www.xes-inc.com>

**Back Panel I/O**

- Two SFP+ connectors for two 10GBASE-KR Ethernet ports
- One zQSFP+ connector for one 40GBASE-R Ethernet port
- Two USB 2.0 ports
- Two micro-DB-9 connectors for two RS-232 serial ports or one RS-422/485 serial port, plus a SOSA maintenance console port
- One RJ-45 connector for one 10/100/1000BASE-T Ethernet port
- One XIM site to support X8d+X12d+X16s breakout
- One DisplayPort interface

**Internal I/O**

- One M.2 site to support one x4 PCI Express Gen4-capable interface
- One M.2 site to support one x2 PCI Express Gen3-capable interface
- GPIO header

**Physical Characteristics**

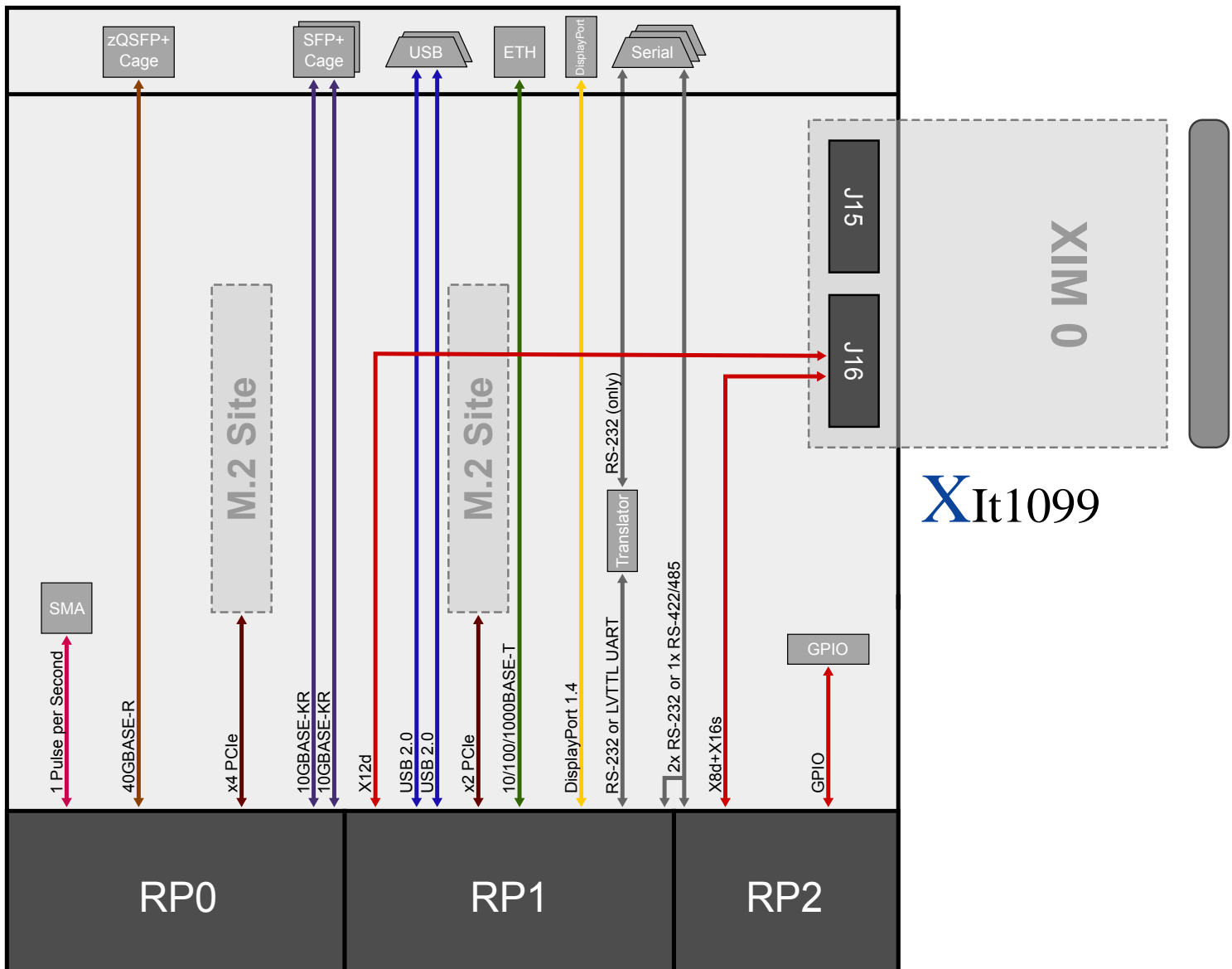
- 3U VPX RTM form factor
- Fits in VITA 46.10 RTM slots
- VITA 66.4 support (optional, contact factory for details)
- Overall dimensions: 204.7 mm x 150.1 mm (with XIM tray) or 108.5 mm (without XIM tray)
- 1.0 in. pitch

**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

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

† Contact factory for airflow rate details.



XIt1099