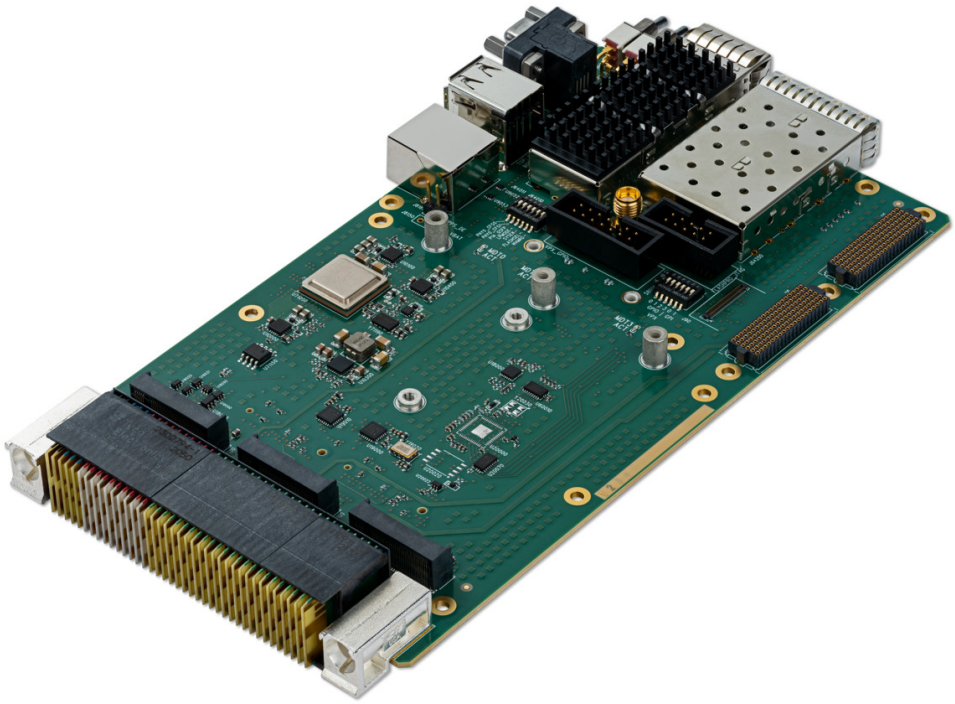
XIt1097

3U VPX Rear Transition Module with 100/25 Gigabit and 10 Gigabit Ethernet, USB, Serial, and XIM Site

- 3U VPX Rear Transition Module
- Two SFP+ connectors for two 10GBASE-R Ethernet ports
- One zQSFP+ connector for one 100GBASE-R Ethernet port or four 25GBASE-R Ethernet ports
- Two USB 2.0 ports
- Two micro-DB-9 connectors for two RS-232/422/485 serial ports
- One RJ-45 connector for one 10/100/1000BASE-T Ethernet port
- Three M.2 sites to support three x4 PCI Express interfaces
- Two M.2 sites to support two x2 PCI Express interfaces
- One XIM site to support X12d breakout
- 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



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The XIt1097 provides I/O expansion for Intel® Xeon® D-1700 and D-2700 series (formerly Ice Lake-D) processor-based 3U 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 XIt1097 features two SFP+ connectors for two 10GBASE-R Ethernet ports, plus a zQSFP+ connector that can be configured for either one 100GBASE-R Ethernet port or four 25GBASE-R Ethernet ports. An RJ-45 connector supports one 10/100/1000BASE-T Ethernet port. The XIt1097 also supports two RS-232/422/485 serial ports and two USB 2.0 ports.

One XIM site allows for access to the X12d signals from P1. An optional XIM tray can be installed to support XIM modules (contact factory for details). Multiple M.2 sites can support up to three x4 PCI Express interfaces and two x2 PCI Express interfaces.

X-ES
Extreme Engineering Solutions

"Fast, Flexible, Customer-Focused Embedded Solutions"

Extreme Engineering Solutions
9901 Silicon Prairie Parkway • Verona, WI 53593
Phone: 608.833.1155 • Fax: 608.827.6171
sales@xes-inc.com • https://www.xes-inc.com

Back Panel I/O

- Two SFP+ connectors for two 10GBASE-R Ethernet ports
- One zQSFP+ connector for one 100GBASE-R Ethernet port or four 25GBASE-R Ethernet ports
- Two USB 2.0 ports
- Two micro-DB-9 connectors for two RS-232/422/485 serial ports
- One RJ-45 connector for one 10/100/1000BASE-T Ethernet port
- One XIM site to support X12d breakout

Internal I/O

- Three M.2 sites to support three x4 PCI Express interfaces
- Two M.2 sites to support two x2 PCI Express interfaces
- GPIO header

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

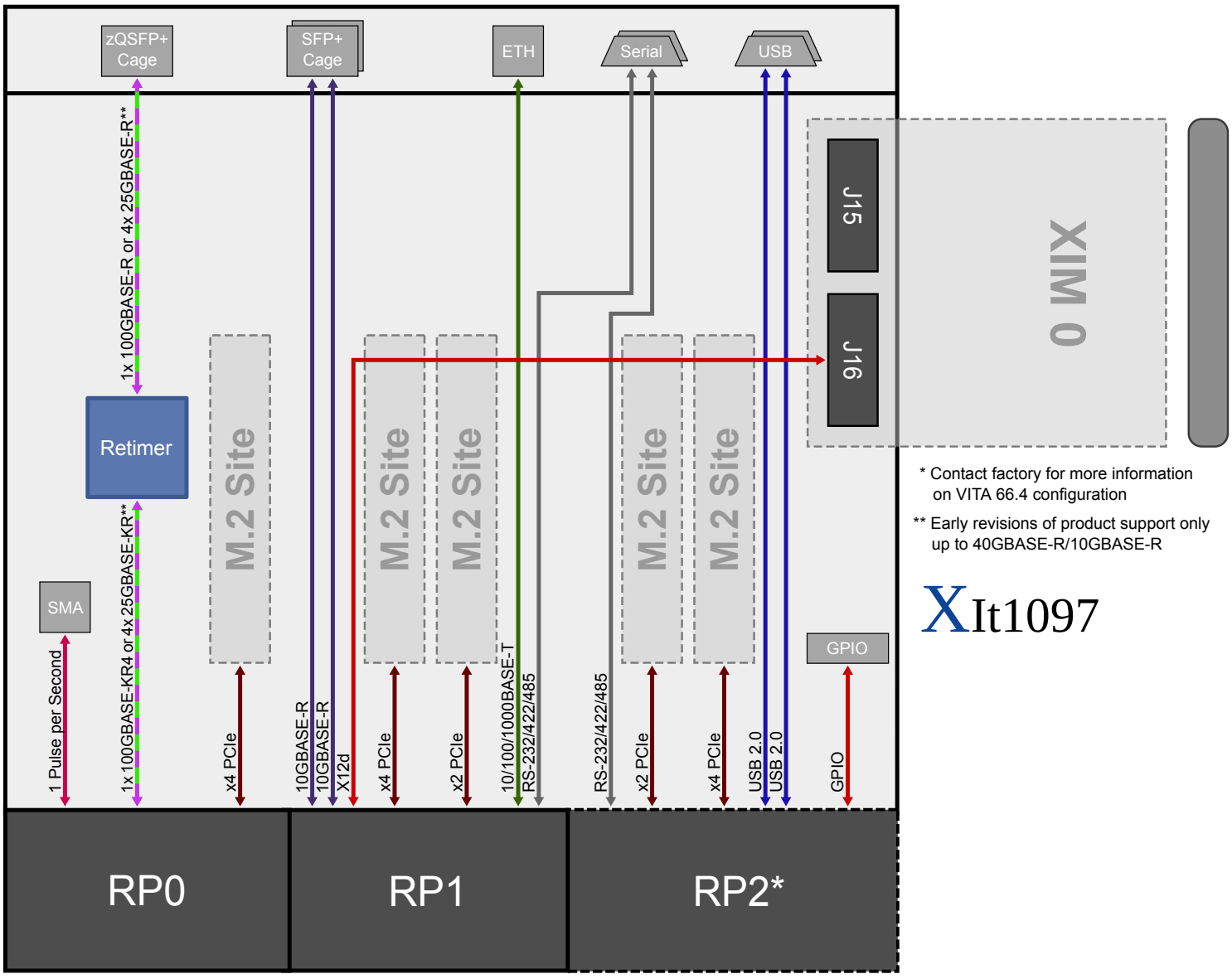
- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

Physical Characteristics

- 3U VPX RTM form factor
- Fits in VITA 46.10 RTM slots
- VITA 66.4 support (optional, contact factory for details)
- Overall dimensions: 202.3 mm x 149.7 mm (with XIM tray) or 108.1 mm (without XIM tray)
- 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 g²/Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth
Humidity	Up to 95% non-condensing

† Contact factory for airflow rate details.



* Contact factory for more information on VITA 66.4 configuration

** Early revisions of product support only up to 40GBASE-R/10GBASE-R

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