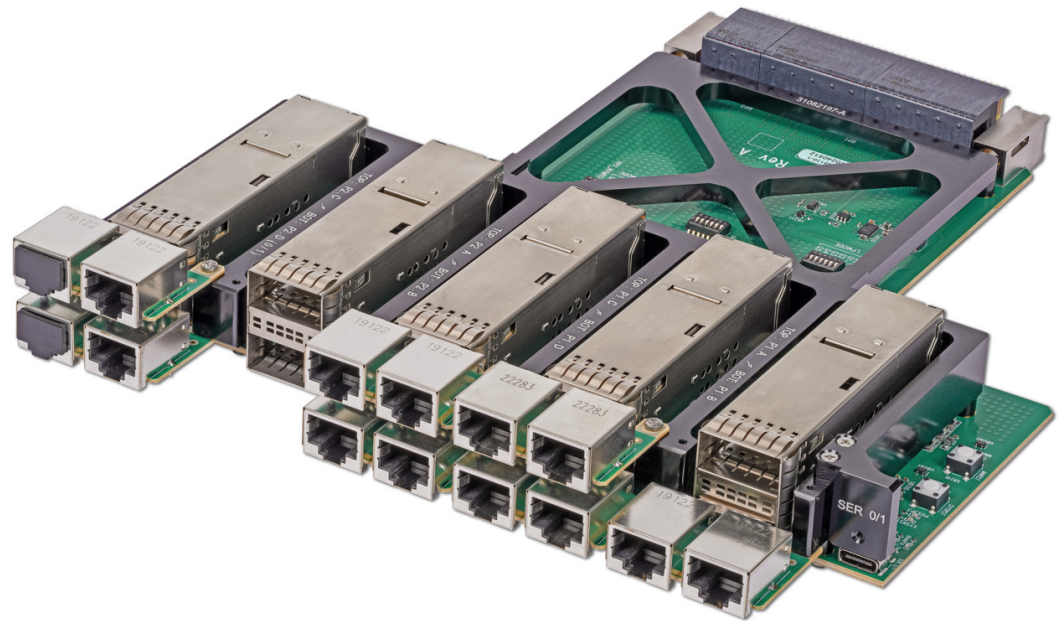


XIt1190

3U VPX Rear Transition Module with 10 zQSFP+ Connectors and USB-C DUART Serial

- ▶ 3U VPX Rear Transition Module
- ▶ Support for custom Ethernet switch configurations
- ▶ 10 total zQSFP+ connectors capable of 28 Gbps
- ▶ Seven zQSFP+ connectors for up to seven ports of 40GBASE-KR, 28 ports of 10GBASE-KR, or 14 ports of 10GBASE-T/1000BASE-T Ethernet
- ▶ Three zQSFP+ connectors for up to six ports of 10GBASE-KR or three ports of 10GBASE-T/1000BASE-T Ethernet
- ▶ USB-C Dual UART serial port (USB 2.0) with screw lock support
- ▶ SMA connector and header for PPS input
- ▶ Toggle switches for system reset and maskable reset
- ▶ DIP switches for VPX GA, LPMODE, and NVMRO
- ▶ JTAG header
- ▶ Fits in most VITA 46.10 RTM slots
- ▶ Exceeds 1.0 in. pitch (may affect compatibility in adjacent RTMs)
- ▶ Header to allow external VBAT supply



XIt1190

The XIt1190 is a highly configurable development module providing I/O expansion to custom Ethernet switch configurations. Its T-shaped 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 XIt1190 contains 10 total zQSFP+ connectors. Seven connectors support up to seven ports of 40GBASE-KR, 28 ports of 10GBASE-KR, or 14 ports of 10GBASE-T/1000BASE-T Ethernet. The other three connectors support up to six ports of 10GBASE-KR or three ports of 10GBASE-T/1000BASE-T Ethernet. A USB-C Dual UART serial port supports the serial pinout on custom 3U VPX Ethernet switches and features a single screw lock. DIP switches provide LP_MODE signals to reduce power consumption and VPX_GA signals to identify slot positions of each module in a chassis.

Configurations with various combinations of XIt1191 passthrough I/O modules can be installed per payload pinout. Contact X-ES for additional details and considerations.

The XIt1190 exceeds 1.0 in. slot pitch component height. Users should evaluate the dimensions of any adjacent RTMs to determine whether this will affect compatibility in 1.0 in.-pitch development systems.

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

- Seven zQSFP+ connectors for up to seven ports of 40GBASE-KR, 28 ports of 10GBASE-KR, or 14 ports of 10GBASE-T/1000BASE-T Ethernet
- Three zQSFP+ connectors for up to six ports of 10GBASE-KR or three ports of 10GBASE-T/1000BASE-T Ethernet
- USB-C Dual UART serial port (USB 2.0) with screw lock support
- 1PPS input SMA connector
- System reset switch
- Maskable reset switch

Internal I/O

- External VBAT header
- JTAG header

Additional Features

- DIP switches to enable LP_MODE and VPX_GA signals

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements

Physical Characteristics

- 3U VPX RTM form factor
- Fits in VITA 46.10 RTM slots
- Overall dimensions: 388 mm x 179 mm (please contact factory for exact T-shape dimensions by side)
- Exceeds 1.0 in. pitch (may affect compatibility in adjacent RTMs)

