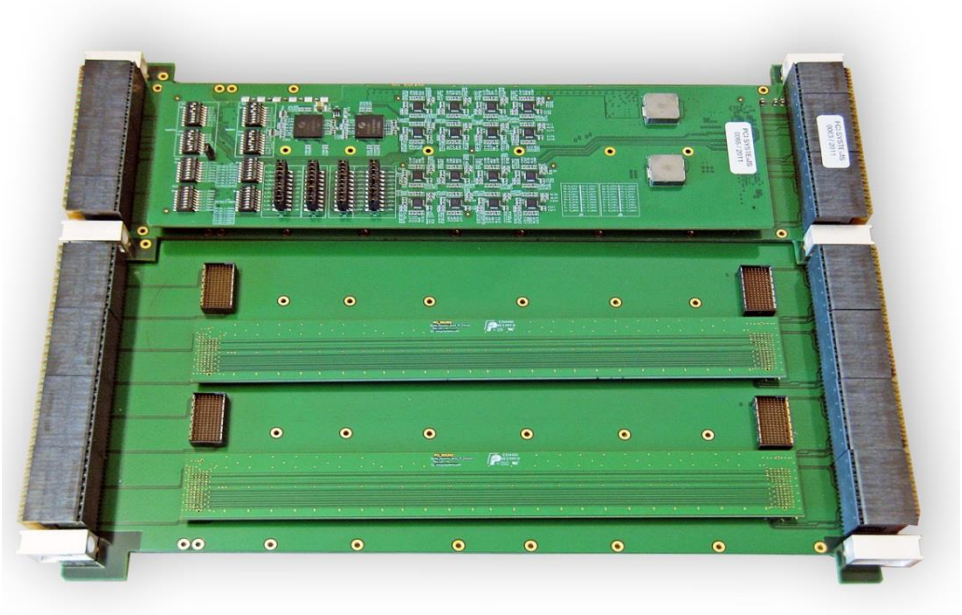
Datasheet

6U VPX extender module



What we do

PCI-SYSTEMS manufactures a variety of COTS modular designed conduction cooled chassis for VPX and CPCI applications, including ATR and ARINC 600 enclosures.

Switched Backplane Gen.2

NO STUB designs eliminate bandwidth degradation and allow RF signals to be connected via COAX connectors to the rear of the chassis. Switches are designed as mezzanine boards for small packaging and superior signal quality.

6U PCIe Gen3 Extender for Lab and Development

The VPX extenders are built to extend a **6U VPX** module completely out of a chassis, providing access to all sides of the module for testing and debugging.

Our solution features a Tyco Multi-Gig RT-2 connector **"mini" backplane** to solve the problem of not having a right angle female connector. The optional mezzanines are connected to the base board via **ERNI** high speed **10 GBit/s** connectors. Pin out: **Standard VPX 1 to 1**

- PCIe **Gen 3**
- Controlled impedance
- 100 Ohm differential pairs
- LED power rail status monitoring
- Conforms to VITA 46 VPX and OpenVPX
- Alignment keying provided on both sides of the extender

Optional Mezzanines:

- Re-driver for add-on cards
- Re-driver for CPU slot
- Bus Analyzer Mezzanine
- I/O
- Switched PMC to PMC (TOP)
- Switched XMC to XMC (Bottom)

PCI-SYSTEMS EMBEDDED COMPUTER SOLUTIONS

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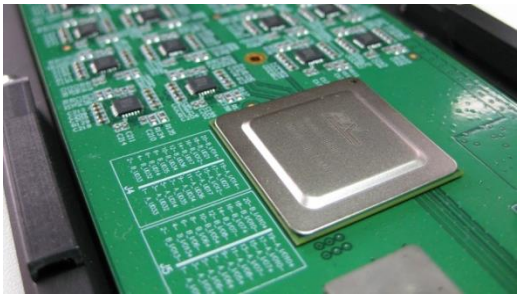
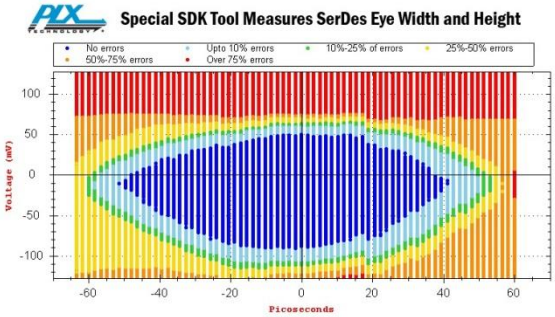
Picture 1: **Switched lanes Mezzanine**

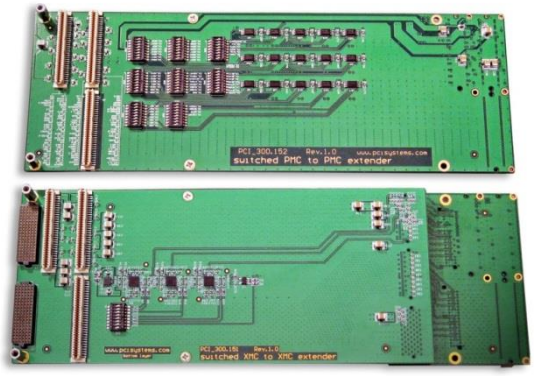
Picture 2: **Bus Analyzer Mezzanine**

16 lane Bus Analyzer works in conjunction with PLX's on-chip diagnostic hardware **visionPAK™**.





Picture 3: **Switched PMC to PMC**
Switched XMC to XMC



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ORDERING INFORMATION:

Extender 6U VPX PCI_300.510
Redriver Mezzanine (P1) PCI_300.501
Passive Mezzanine (P2) PCI_300.502
Bus Analyzer 16 lane (P1) PCI_300.503

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