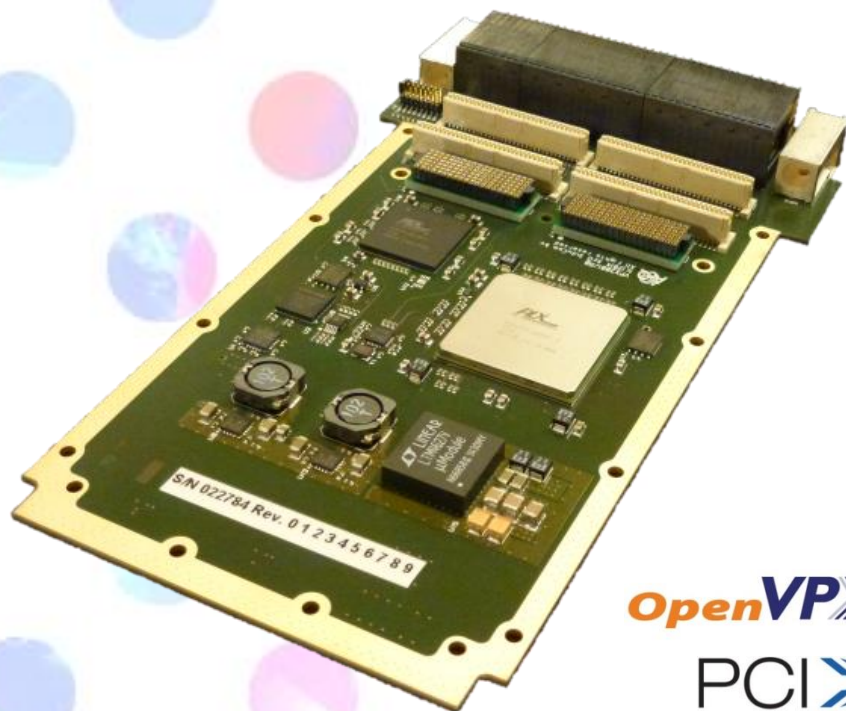


OpenVPX™ 3U PCIe Switch & PMC/XMC carrier

The VPX3001 PCI Express Switch and PMC/XMC carrier card allows more easy system integration of single board computers and I/O modules in an OpenVPX™ system.

It provides a PCI Express Switch (Gen 1/2/3) and a mezzanine carrier.



On the VPX3001 are a PCIe switch and a PCIe-to-PCI-X bridge. The PCIe-to-PCI-X bridge connects the PMC interface to the PCIe switch. The XMC interface is connected to the PCIe switch using PCIe x8, where the PCIe-to-PCI-X bridge is connected to the PCIe switch using PCIe x4. This leaves 16 PCIe lanes for a flexible and scalable interface configuration to the backplane.

The new Gen3 switch offers maximum PCI Express switching speed on 8 Giga transfers per second (GT/s) and still being backwards compatible with the Gen1/2 interfaces.

The PCIe lanes between switch and VPX™ backplane can be configured as four Fat Pipes (x4), four Thin Pipes (x2) or four Ultra Thin Pipes (x1). Or the lanes can also be combined as two Double Fat Pipes (x8) or one Quad Fat Pipe (x16).

Populated with a processor XMC/PMC, the VPX3001 can act both as a system controller or as a non-system controller module.

Features

- General**
- Configurable and flexible Gen1/2/3 PCI Express switch
 - Non-blocking PCI Express switch (depends on configuration)
 - Supports non-transparent mode
 - PMC/XMC carrier with rear I/O connection
 - 16 lanes of PCI Express, up to 4 PCI Express switching ports available on VPX™ Data Plane
 - IPMC Power Management on P0 Utility Plane

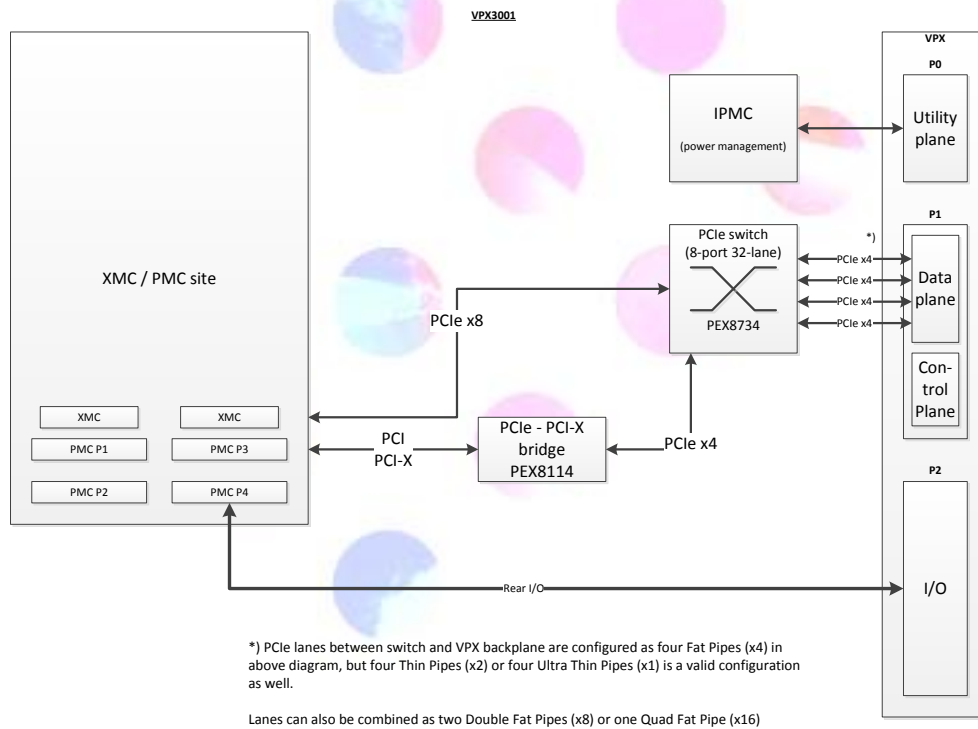
- General**
- PCI Express Gen 1/2/3 ready to 24GB of DDR3 RAM
 - Configurable and flexible Gen1/2/3 PCI Express switch
 - 16 lanes of PCI Express available on VPX™ Data Plane
 - Up to 4 PCI Express switching ports for VPX™ use
 - Configurable transparent or non-transparent port(s)
 - Reverse mode supported for monarch / root-complex

- PMC/XMC carrier**
- PMC carrier
- 4 lanes of PCI Express to PCI bridge
 - PCI 3.0 support
 - 32 and 64-bit support
 - 66/50/33/25 MHz support
 - 3V3 I/O signaling only
 - Rear I/O to P2 connector
- XMC carrier
- 8 lanes of Gen3-ready PCI Express to XMC
 - Rear I/O to P2 connector


- OpenVPX™ profiles and I/O**
- Compatible with many OpenVPX™ profiles
 - All I/O of the XMC/PMC site is routed to the P2 connector

- Environmental**
- Air-cooled
 - Operation temperature of components is at least -40..+85° Celsius
 - Optional: conformal coating

- Ordering information**
- VPX3001/T01 3U OpenVPX™ PCI Express Gen 1/2/3 switch and PMC/XMC carrier card



Block diagram



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