

PCI126

PCIe Gen3 x16 Bus Expansion via Quad x4 OCuLink



PCI126

Key Features

- PCIe Gen3 (x16) Bus Expansion
- Links to downstream devices via Quad x4 OCuLink
- Programmable option to run as Dual x8 or Quad x4 PCIe Gen3 for the downstream ports

Benefits

- VadaTech has full eco-system across multiple I/O modules
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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PCI126

The PCI126 is one of VadaTech's 4th generation PCIe expansion module based on the PCI-SIG specification. The Module has a 32 lane PCIe Gen3 switch.

The PCI126 mates to the host via PCIe x16 and have four x4 OCuLink connector for external devices (downstream devices). The Quad x4 could be configured as four distinct x4 connection or dual x8.



Figure 1: PCI126

Block Diagram

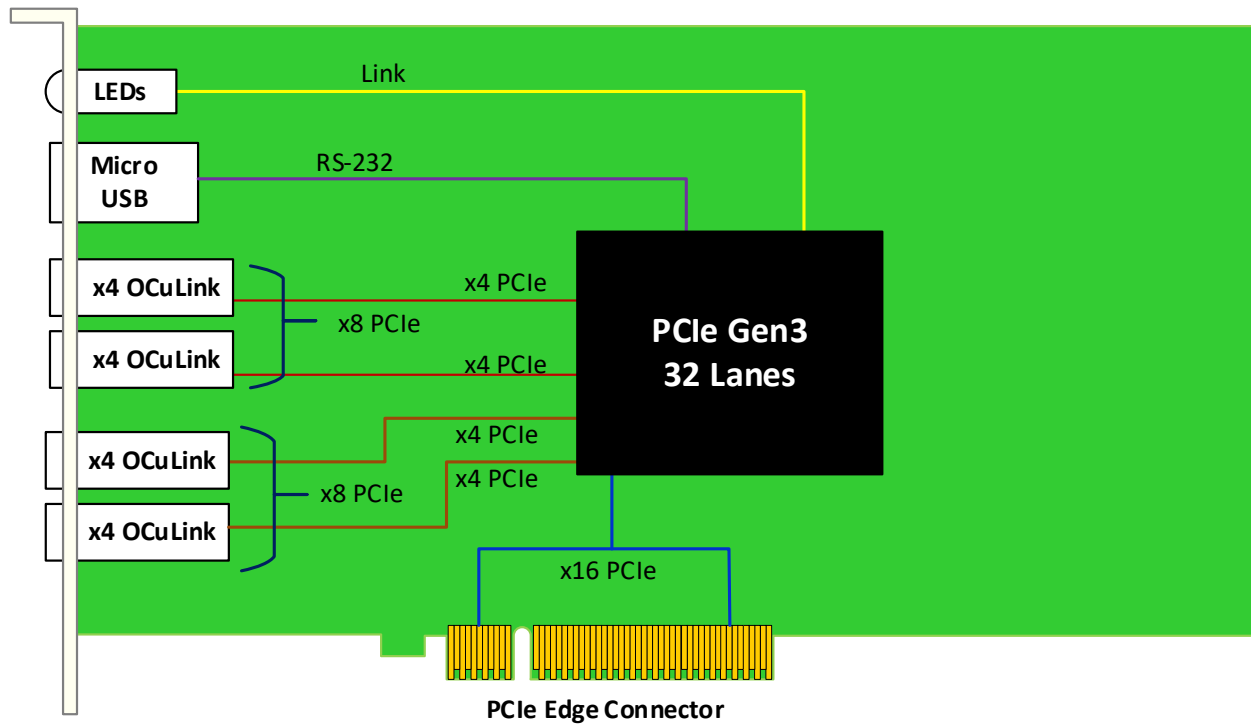


Figure 2: PCI126 Functional Block Diagram

Specifications

Architecture	
Physical	Dimensions Single Module Width: 2.71" (69 mm) Depth: 3.01" (76.5 mm)
Type	PCIe PCIe Module for I/O Bus Expansion
Standards	
PCIe	Type x16 Lanes edge style per PCIe Sig specification
Configuration	
Power	PCI126 8W
Environmental	Temperature See Ordering Options Storage Temperature: -40° to +85°C Altitude 40,000 ft non-operating Vibration Operating 9.8 m/s ² (1G), 5-500 Hz Shock Operating 30Gs each axis Relative Humidity 5 to 95% non-condensing
Front Panel	Interface Connectors Quad OCuLink x4 for downstream LEDs Status
Software Support	Operating System Agnostic
Other	
MTBF	MIL Hand book 217-F@ TBD hrs
Certifications	Designed to meet FCC, CE and UL certifications, where applicable
Standards	VadaTech is certified to both the ISO9001:2015 and AS9100D standards
Warranty	Two (2) years, see VadaTech Terms and Conditions

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

PCI126 – 000-000-0HJ

		H = Temperature Range 0 = Commercial (-5° to +55°C) 1 = Industrial (-20° to +70°C) 2 = Extended (-40° to +85°C)
		J = Conformal Coating 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

PCI592



- PCIe FPGA carrier for FMC+ per VITA 57
- Xilinx Kintex UltraScale™ XCKU115 FPGA
- Active cooling for FPGA and FMC+

PCI596



- PCIe x16 FPGA carrier for FMC+ per VITA 57.4
- Xilinx UltraScale+™ VU13P FPGA
- Allows expansion of a daughter card on top of the FMC for more I/O

PCI325



- Multi-Channel Synchronous/Asynchronous RS-422 communication
- 24 – RS-422 input pairs
- 30 – RS-422 output pairs

Contact

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