PCI125

PCIe Gen3 x16 Bus Expansion via Dual x8 OCuLink (as a single combined x16)



Key Features

- PCIe Gen3 (x16) Bus Expansion
- Links to external devices via Dual PCle x8 OCuLink connectors for x16 uplink
- Programmable Retimer/Conditioner for different length of cable

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





PCI125

The PCI125 is one of VadaTech's 4th generation PCIe expansion module based on the PCI-SIG specification. The Module has a Retimer/Conditioner to improve signal integrity for enhancing system performance and reliability across long cables. It removes both random and deterministic jitter from the input signals eliminating inter-symbol interference and resets the output jitter budget. It supports the full 16 lanes.

The Retimer/Conditioner configuration is programmable for different length of cable via the RS-232 port.

The PCI125 allows expansion to an external module via dual OCuLink x8 connectors as a combined x16.



Figure 1: PCI126

Block Diagram

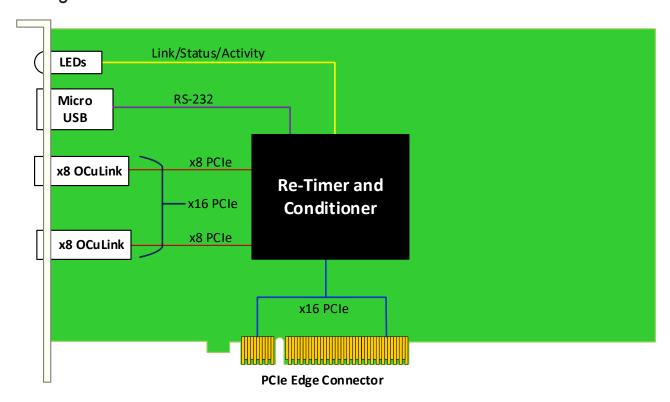


Figure 2: PCI125 Functional Block Diagram

Specifications

Architecture				
Physical	Dimensions	Single Module		
		Width: 2.71" (69 mm)		
		Depth: 3.01" (76.5 mm)		
Туре	PCle	PCIe Module for I/O Bus Expansion		
Standards				
PCle	Туре	x16 Lanes edge style per PCle Sig specification		
Configuration				
Power	PCI125	3W		
Environmental	Temperature	See Ordering Options		
		Storage Temperature: -40° to +85°C		
	Altitude	40,000 ft non-operating		
		Operating 9.8 m/s2 (1G), 5-500 Hz		
		Operating 30Gs each axis		
	_	5 to 95% non-condensing		
Front Panel	Interface Connectors	Dual OCuLink x8 for x16 uplink		
	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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

PCI125 - 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





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

PCI596



- PCle 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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We are technology leaders

- · First-to-market silicon
- · Constant innovation
- · Open systems expertise

We commit to our customers

- · Partnerships power innovation
- · Collaborative approach
- Mutual success

We deliver complexity

- · Complete signal chain
- · System management
- · Configurable solutions

We manufacture in-house

- · Agile production
- · Accelerated deployment
- AS9100 accredited





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Specification subject to change without notice.