

EATCA-PCIe Expansion kit

General Description:

PCIe expansion kit is the standard for high speed connectivity from a server to a PCIe device. Vastly higher performance than USB or Ethernet, PCIe expansion is easy to use, reliable and cost-effective. No additional software to install means no overhead and low latency. PCIe expansion has proven reliable across a multitude of applications. There is a variety of adapters to suit price-performance needs. EicSys is providing PCIe x4 ATCA Switches, PCIe-x4 host boards and cables. It is either connected with copper cables or for long distances with fibre links (with MicroPod connector on both sides). The ATCA blade could support 4 Slots. Optional up to 12 Slots

Below the types of PCIe products are presented:

Picture:



Specification is subject to change without further notice

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Description			
Architecture			
Physical	Dimensions	ATCA blade: 8U, 280 mm depth PC Host board	
Standards	ATCA, PICMG 3.0 PICMG 1.3, PCI Express	ATCA standard, IPMI	
Compatibility	Compatible ATCA Backplanes Compatible PCI Products	PICMG 3.0 PCI Express Base Specification	
ATCA Blade			
Front panel	ATCA Slot 1	PCIe x4 copper MTP Fiber	1 slot 1 slot optional
	Diagnostic interface	Front panel channel, Connector type Data throughput	PCIe X4 RJ45/Micro USB 1Mbps/up to 10 Mbps
Backplane	PCIe	Backplane Connector type Data throughput Bit error rate Number of slots	Zone 2 connectors PCIe gen. 3.0 20 Gbps/32 Gbps/slot < 10 ¹⁴ bit ⁻¹ 4
Electrical Properties	Power consumption	<20 Watt	
	PCIe switch Signal redriver	PEX8732 DS125BR401SQ	
Host board			
Front panel	Single slot	PCIe x4 copper cable MTP Fibre	
	PCIe switch Signal redriver	PCIe x4 copper cable MTP Fibre	
Board compatibility			
eiCsys Board	Connected Board	Physical connection	
EATCA-PCIe-Ex4	Could be connected with PCIe Boards via interface cable		
EPcie-x4	Host board	Copper cable	
	Could be connected with PCIe Boards via interface cable		

Datasheet – 21.10.2015, Rev. 1.3

Developed by:
eicSys Hamburg

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