HIPER Global

VPX CPU Card

6U OPENVPX CPU BLADE WITH INTEL® XEON® PROCESSOR

PART NUMBER: VPX-CPU-6UXEON

- 5th generation Intel® Xeon® processor
- Default 32GB/16GB DDR4 2133 onboard memory with ECC support, up to 64GB
- High-speed interfaces: Data Plane: Dual SRIO up to 5Gbps, Expansion plane: PCIe Gen3, and dual 40GBase-KR4 on user-define plane
- Two ruggedised connectors and common I/O port connectors available on the front panel
- 64GB onboard NAND flash, and 1x SATA M.2, 2x NVME M.2 storage options available

SPECIFICATION

Processor System	CPU	Intel® XEON® D-1559	
	Max Speed	2.1 GHz	
	BIOS	Redundant AMI UEFI based 16MByte SPI flash	
Memory	Technology	Dual channel DDR4 2133MHz w/ ECC	
	Capacity	Default 32GB, up to 64GB with customized BOM	
VPX Interface	P1	2 x Serial Rapid I/O Gen2 x 4, and 2 x 40GBase-KR4	
	P2	1 x PCIe x16 (configurable to 2x 8, 4x4; 1x 8 + 2x 4; 1x 8 + 4x 2)	
	P3	1 x PCIe x 8 + 1 x PCIe x 4 (configurable to 3x4, 1x8 + 2x2, 2x4 + 2x2, 6x2), 2 x SERDES	
	P4	2 x SERDES	
	P5	2 x USB2.0; 1 x VGA	
	P6	4 x SATA3, 1 x RS232, 1 x RS422	
Ethernet	Controller	Intel® I350-AM4, Intel® XL710BM2 to backplane; 1 x Intel® I210 to front panel	
Front I/O Interface	Ruggedised Connector	Jonhon HJ30J-36ZKWP7 (36 pins) & HJ30J-18ZKWP7(18 pins)	
	Serial (COM)	1 console (Tx, Rx) to BMC, 1 console (Tx, Rx) to x86 (in the ruggedized connectors)	
	Ethernet	1 x RJ-45 10/100/1000BASE-T	
	USB	2x USB 2.0, + 2x USB2.0 in the ruggedized connectors	
	Miscellaneous	1x SFP+ and 1x VGA, the VGA signals are also available in a ruggedized connector in the ruggedized connector	
Operating System	Compatibility	Linux (distribution & Kernel to be confirmed); Windows7, partially support Windows 10	
Storage	Traditional Storage	1x SATA III to external M.2, 4x SATA III to backplane	
	High Speed Storage	2x external NVME M.2	
	Onboard Flash	64G SATA	
Power Requirement	Consumption	90 W total power envelope with D-1559 CPU	
Physical Characteristics	PCB Dimensions	5HP, 233.35 x 160 mm (9.2" x 6.3") (W x D)	
	Weight	0.95kg without peripherals	
Environment		Operating (with 30 CFM airflow)	Non-Operating
	Temperature	-40 ~ 55 °C	-55 ~ 105 °C
	Humidity	95% @ 40 °C, non-condensing	95% @ 60 °C, non-condensing
	Shock	VITA 47, OS2	
		VITA 47, OS1 (convection cooled)	
	Vibration	VITA 47, V2 (conduction cooled), 0.008 g²/Hz, 2 Grms, 5-500Hz (convection cooled)	
	Altitude	50,000ft @ -40 °C above sea level	

Compliance	VPX	OpenVPX (VITA 65), REDI (VITA 48), IPMI 2.0
	Safety	FCC class A, CE, RoHS
	EMC	FCC47 CFR Part15, Class A, CE Mark (EN55022/EN55024/EN300386)

▎ The Power to Outperform

Would you like to find out more? Be sure to speak to our on-stand team or contact us via the details here and we would be happy to help.

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