VPX611

U.2 NVMe Solid State Drive, PCle Gen4 in 3U VPX



Key Features

- 3U VPX Solid State Drive (SSD) with U.2 form factor
- PCIe Gen4 x4
- Storage up to 30TB in single 2.5" 15mm height
- IPMI 2.0 compliant

Benefits

- Multi-Terabit storage capacity in a single module VPX form factor carrier
- NVMe performance
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company





VPX611

The VPX611 is fully compliant to the Enterprise Solid State Disk (SSD) with the U.2 form factor. NVMe storage provides high speed and low latency read/write to the SSD devices.

The module supports one U.2 form factor NVMe storage device in 2.5" form factor. The module can accept a 15mm height disk with capacity of up to 30TB.



Figure 1: VPX611



Block Diagram

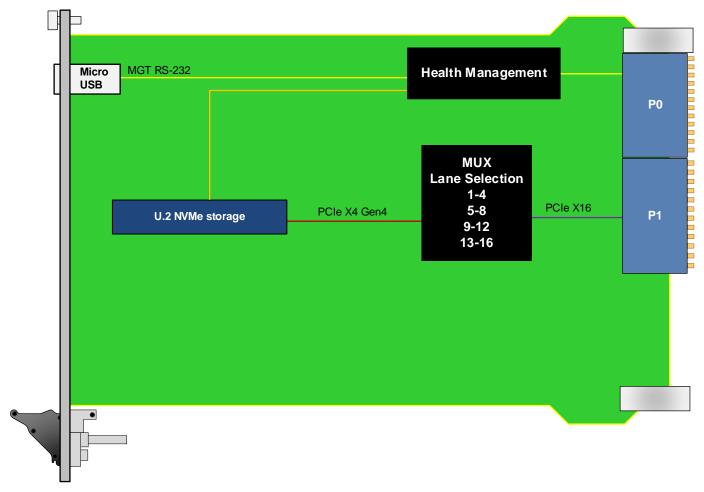


Figure 3: VPX611 Functional Block Diagram



Backplane Pinout

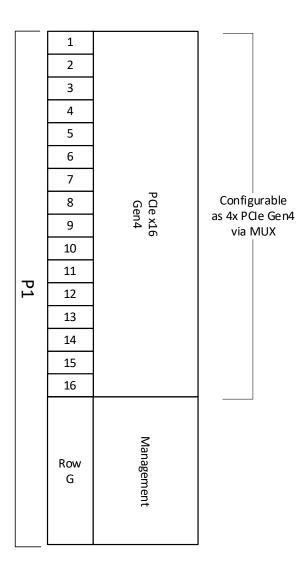


Figure 3: VPX611 Pinout Block Diagram

Specifications

Architecture					
Physical	Dimensions	3U, 1" Pitch			
Туре	VPX Storage	U.2 NVMe SSD			
Standards					
VPX	Туре	VITA 46.x and VITA 65 Open VPX			
Module Management	IPMI	IPMI v2.0			
PCle	Lanes	Gen4 x4			
Storage	SSD	Per option A; up to 30TB			
Configuration					
Power	VPX611	25W with 15 TB of NVMe Storage			
Front Panel	Interface Connectors	RS-232 from Health Management			
VPX Interfaces	Slot Profiles	See Ordering Options			
Software Support	Operating System	Linux, Windows and VxWorks			
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				

OpenVPX allows for a wide range of pin assignments and use cases. Prior to purchasing VadaTech products as standalone items (i.e. not part of an integrated platform) please consult with VadaTech on the system architecture to ensure compatibility.

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, VPX 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

VPX611-A00-D00-GHJ

A = NVMe Storage Capacity	D = PCle Port selection	G = Slot Profile	
0 = None 1 = Reserved 2 = 6 TB 3 = 15 TB 4 = 30 TB 5 = Reserved 6 = Resaved	0 = Ports 0-3 1 = Ports 4-7 2 = Ports 8-11 3 = Ports 12-15	0 = 5 HP, VITA 48.1	
		H = Environmental	
		See Environmental Specification	
J		J = Conformal Coating	
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic	

Environmental Specification

Air Cooled			Conduction Cooled		
Option H	H = 0	H = 1	H = 2	H = 3	H = 4
Operating Temperature	AC1* (0°C to +55°C)	AC3* (-40°C to +70°C)	CC1* (0°C to +55°C)	CC3* (-40°C to +70°C)	CC4* (-40°C to +85°C)
Storage Temperature	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)	C1* (-40°C to +85°C)	C3* (-50°C to +100°C)	C3* (-50°C to +100°C)
Operating Vibration	V2* (0.04 g2/Hz max)	V2* (0.04 g2/Hz max)	V3* (0.1 g2/Hz max)	V3* (0.1 g2/Hz max)	V3 (0.1 g2/Hz max)
Storage Vibration	OS1* (20g)	OS1* (20g)	OS2* (40g)	OS2* (40g)	OS2* (40g)
Humidity	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing	95% non-condensing

Notes: *Nomenclature per ANSI/VITA 47. Contact local sales office for conduction cooled (H = 2, 3, 4)

Related Products

VPX765



- 3U VPX Processor Intel® Core™ Processor i7-1185GRE (Tiger Lake)
- PCle x4 Gen4 and PCle x4 Gen3 to P1
- XMC with PCIe x4 Gen3

VTX955



- 1U Open VPX Rackmount platform with two 3U VPX payload slots
- Support for conduction cooled modules
- Support for Rear Transition Modules (RTMs)

VPX339



- Comprehensive multi-protocol support
- Support for MIL-STD-1553A/B, MIL-STD-1760
- Support for ARINC 429, ARINC 575, ARINC 717, ARINC 825

Contact

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