

# VPX611

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



VPX611

## 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



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# 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



Figure 2: VPX611 Top View

# Block Diagram

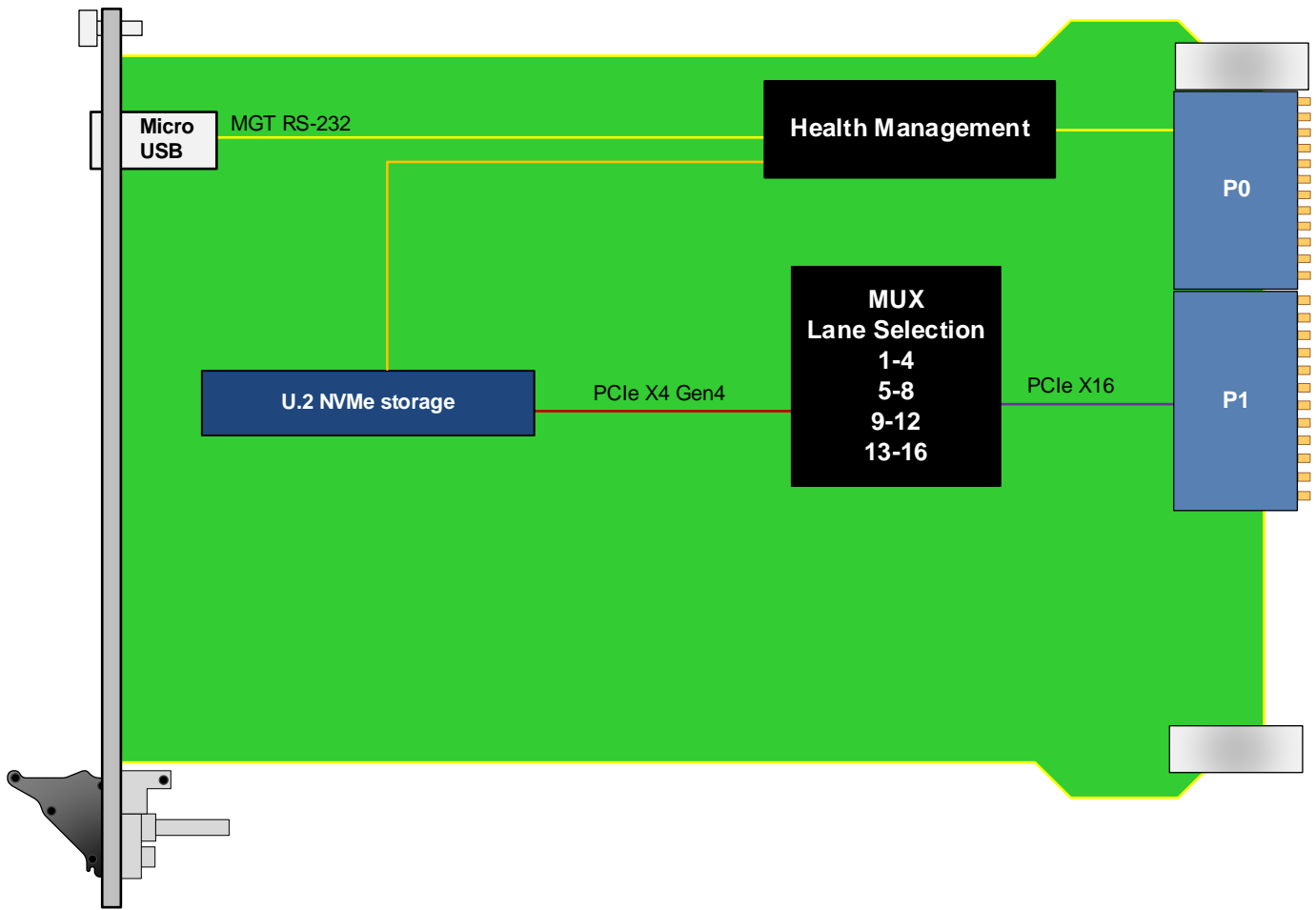


Figure 3: VPX611 Functional Block Diagram



Figure 4: VPX611 Front Panel

# Backplane Pinout

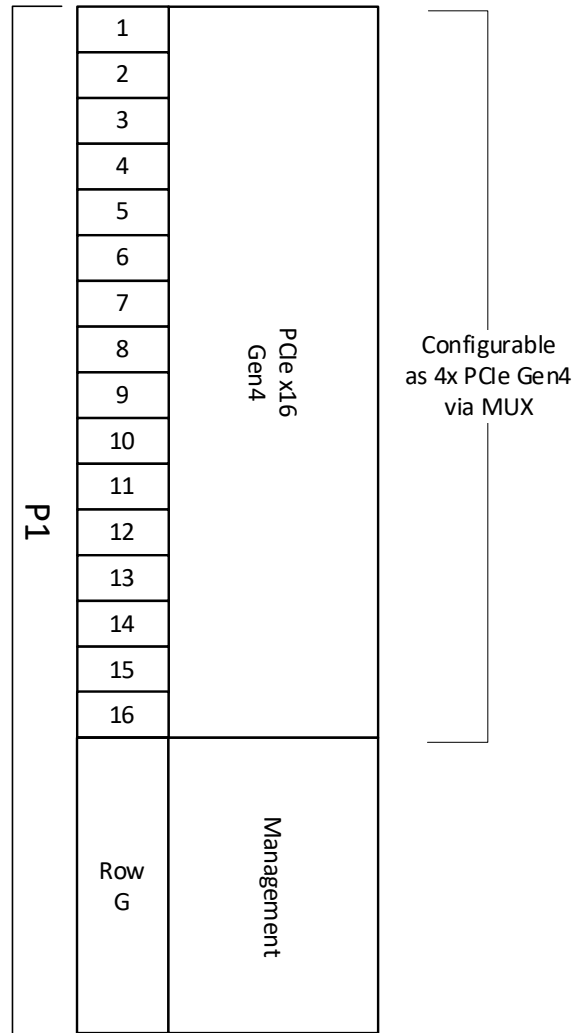


Figure 3: VPX611 Pinout Block Diagram

# Specifications

Architecture	
<b>Physical</b>	<b>Dimensions</b> 3U, 1" Pitch
<b>Type</b>	<b>VPX Storage</b> U.2 NVMe SSD
Standards	
<b>VPX</b>	<b>Type</b> VITA 46.x and VITA 65 Open VPX
<b>Module Management</b>	<b>IPMI</b> IPMI v2.0
<b>PCIe</b>	<b>Lanes</b> Gen4 x4
<b>Storage</b>	<b>SSD</b> Per option A; up to 30TB
Configuration	
<b>Power</b>	<b>VPX611</b> 25W with 15 TB of NVMe Storage
<b>Front Panel</b>	<b>Interface Connectors</b> RS-232 from Health Management
<b>VPX Interfaces</b>	<b>Slot Profiles</b> See <a href="#">Ordering Options</a>
<b>Software Support</b>	<b>Operating System</b> Linux, Windows and VxWorks
Other	
<b>MTBF</b>	MIL Hand book 217-F@ TBD hrs
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications, where applicable
<b>Standards</b>	VadaTech is certified to both the ISO9001:2015 and AS9100D standards
<b>Warranty</b>	Two (2) years, see <a href="#">VadaTech Terms and Conditions</a>

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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

# Ordering Options

## VPX611-A00-D00-GHJ

A = NVMe Storage Capacity	D = PCIe 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
		<b>H = Environmental</b> See <a href="#">Environmental Specification</a>
		<b>J = Conformal Coating</b> 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

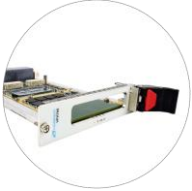
## Environmental Specification

Option H	Air Cooled			Conduction Cooled	
	H = 0	H = 1	H = 2	H = 3	H = 4
<b>Operating Temperature</b>	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)
<b>Storage Temperature</b>	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)
<b>Operating Vibration</b>	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)
<b>Storage Vibration</b>	OS1* (20g)	OS1* (20g)	OS2* (40g)	OS2* (40g)	OS2* (40g)
<b>Humidity</b>	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)
- PCIe x4 Gen4 and PCIe 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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- Accelerated deployment
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