

VPX990A

6U VPX Mass Load for Shock and Vibration Testing (LLCR with nanosecond event detection option)

VPX990A



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Key Features

- 6U VPX Module
- Provision for different mass load distribution
- Nanosecond event detection option as well as Low Level Circuit Resistance (LLCR)
- Available in Conduction Cooled

Benefits

- Most comprehensive VPX products in the market
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

OpenVPX™



VPX990A

The VPX990A was designed for shock/vibration testing with mass load distribution. The module accommodates for having different mass type distribution across the VPX module to simulate real systems requirement while testing the VPX Chassis.

The module could be provided with customer engagement with nanosecond event detection as well LLRC (Low Level Circuit Resistance) measurement.

Figure 1: VPX990A

Figure 2: VPX990A Top View

Block Diagram

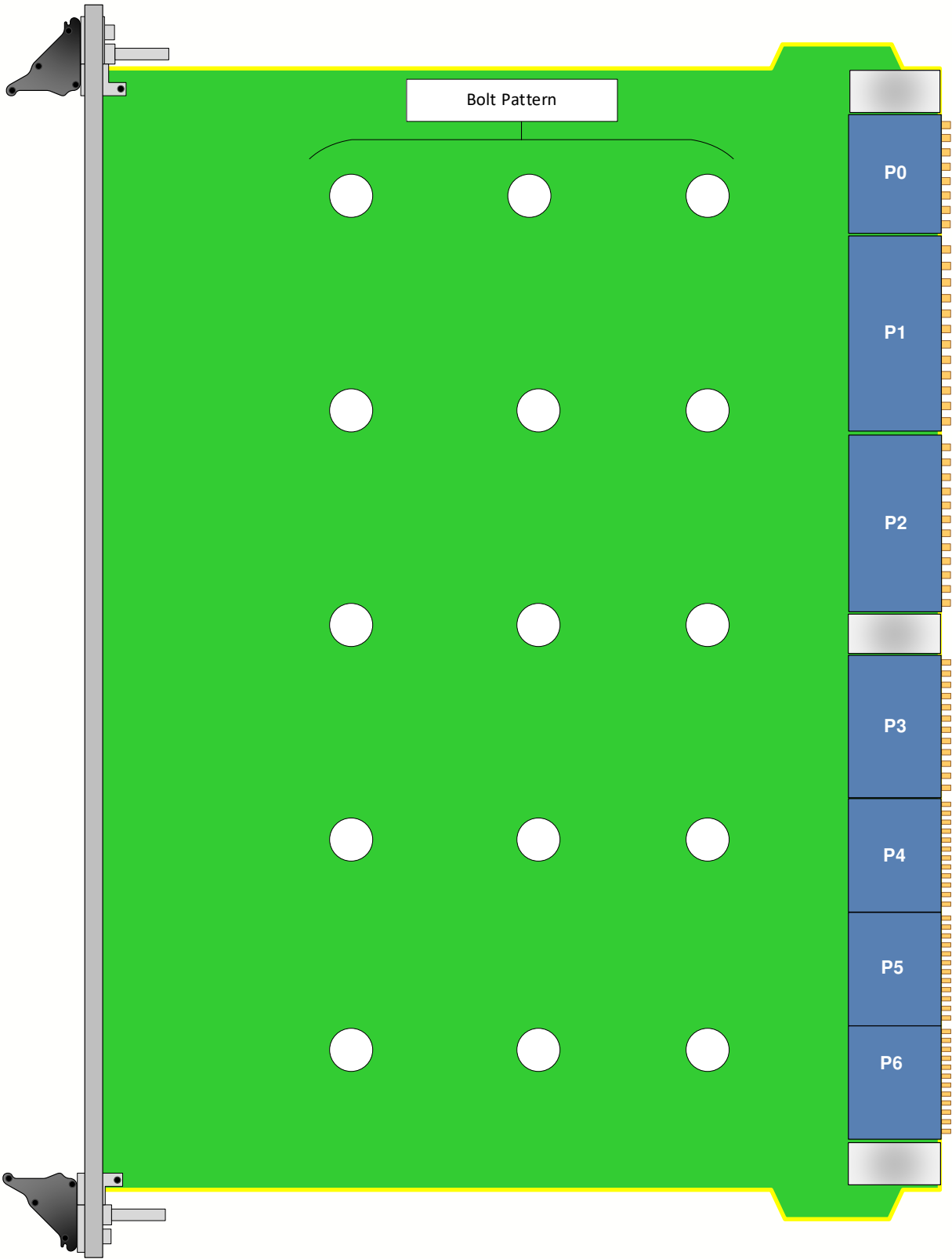


Figure 4: VPX990A Functional Block Diagram

Specifications

Architecture		
Physical	Dimensions	6U, 1" pitch (5 HP panel)
Standards		
VPX	Type	VITA 46.0
Configuration		
Power	VPX990A	Mass Load Module
		Mass configuration distribution based on customer targeted module
		Nanosecond event detection and LLCOR
VPX Interfaces	Slot Profiles	See Ordering Options
	Rear IO	None
	Backplane	Connector per VITA 46.0 High Speed >25Gbaud
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 pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

VPX990A-ABC-D00-GHJ

A = P1/P2 Connector 0 = P1/P2 no load 1 = P1/P2 load 2 = P1 load 3 = P2 load	D = Mass distribution* 0 = Default 1 = Reserved 2 = Reserved 3 = Reserved	G = Applicable Slot Profile 0 = 5 HP, VITA 48.1 1 = Reserved
B = P3/P4 Connectors 0 = P3/P4 no load 1 = P3/P4 load 2 = P3 load 3 = P4 load	E = Nanosecond event detection and LLCR* 0 = None 1 = Reserved 2 = Reserved 3 = Reserved	H = Environmental See Environmental Specification
C = P5/P6 Connectors 0 = P5/6 no load 1 = P5/P6 load 2 = P5 load 3 = P6 load		J = Conformal Coating 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic 3 = Parylene

Notes: *Vadatech will work with customer for mass distribution, nanosecond event detection and LLCR

Environmental Specification

Option H	Air Cooled		Conduction Cooled		
	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

VPX021



- Power Module for Open VPX VITA 62
- 3U VPX Systems
- 600W Output Power

VPX029



- Power Module for Open VPX VITA 62
- 3U VPX Systems
- 600W Output Power

VPX028



- Power Module for Open VPX VITA 62
- 6U VPX Systems
- 500W Output Power

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