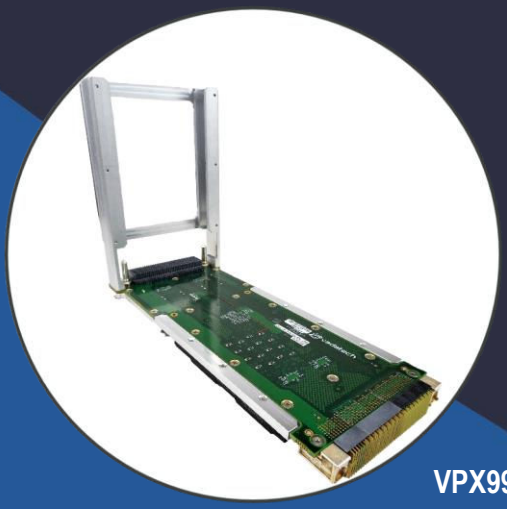
VPX995

3U VPX Module Extender with current measure per power rail



VPX995

Key Features

- 3U VPX Module Extender allows access to the VPX module outside of the chassis
- Option for Clock Data Recovery (CDR) on some lanes
- Option for current measure on all power rails

Benefits

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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VPX995

The VPX995 is an extender card for 3U VPX modules that allows the targeted VPX module to be accessed outside of the chassis.

The PCB Material used on the extender is low loss material to mitigate PCB induced differential skew, improve signal rise times, and reduce jitter and inter-symbol interference (ISI).

The extender is available in two optional forms, per ordering Option A.

The passive form has all signals are routed straight thru from backplane to the module per Figure 6. This extender reports the power consumption on each of the primary VPX power rails +12V, +5V, and +3.3V via a display and the RS-232 port. It also provides test points for the manual measurement of -12V AUX, +12V AUX, +3.3V AUX, and VBAT power consumption.

The active form is per Figure 7, providing Clock Data Recovery (CDR) and Exchange Switches that allow loop back on port 0-3 and/or 4-7 (lanes 1~8) either on P1 or J1. The CDR is specifically designed for PCIe Gen3. This active form does not have the current sensing feature nor the display.

Figure 1: VPX995

Figure 2: VPX995 Bottom Side

Figure 3: VPX995 Bottom Side 2

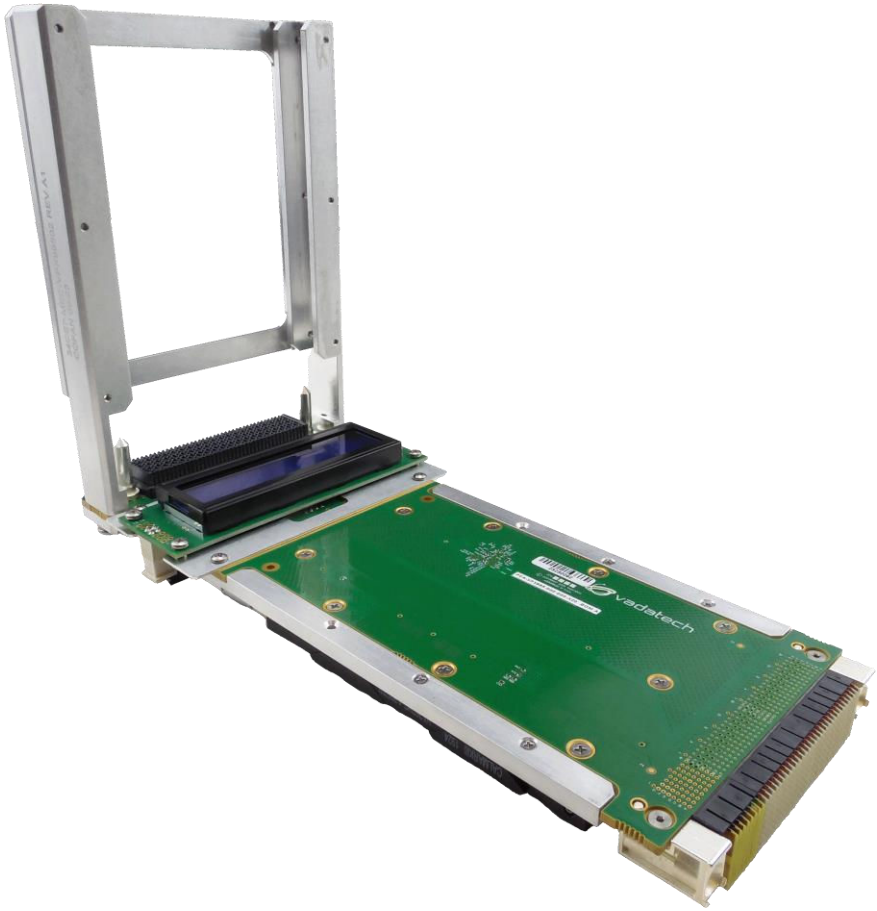


Figure 4: VPX995 A=0

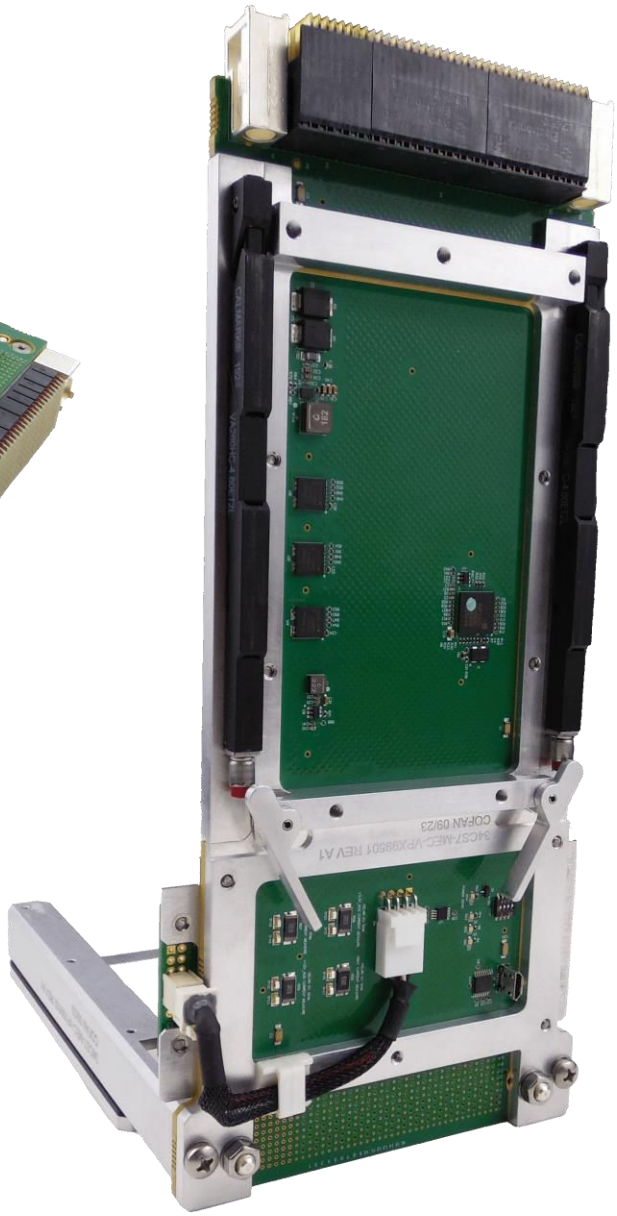


Figure 5: VPX995 A=0 Bottom Side

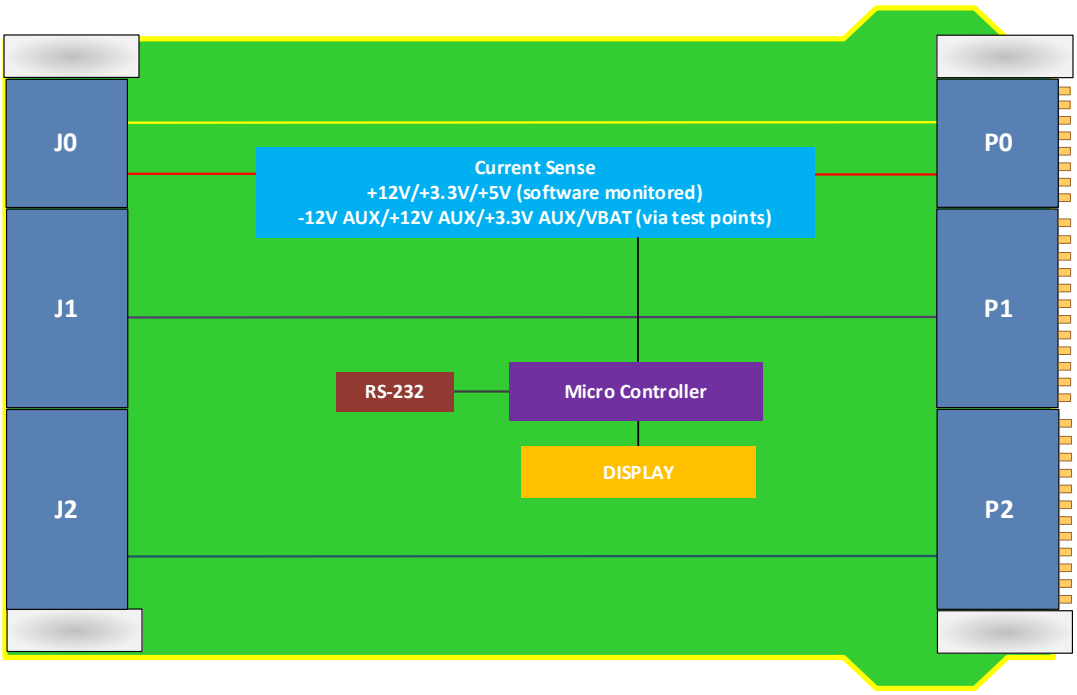
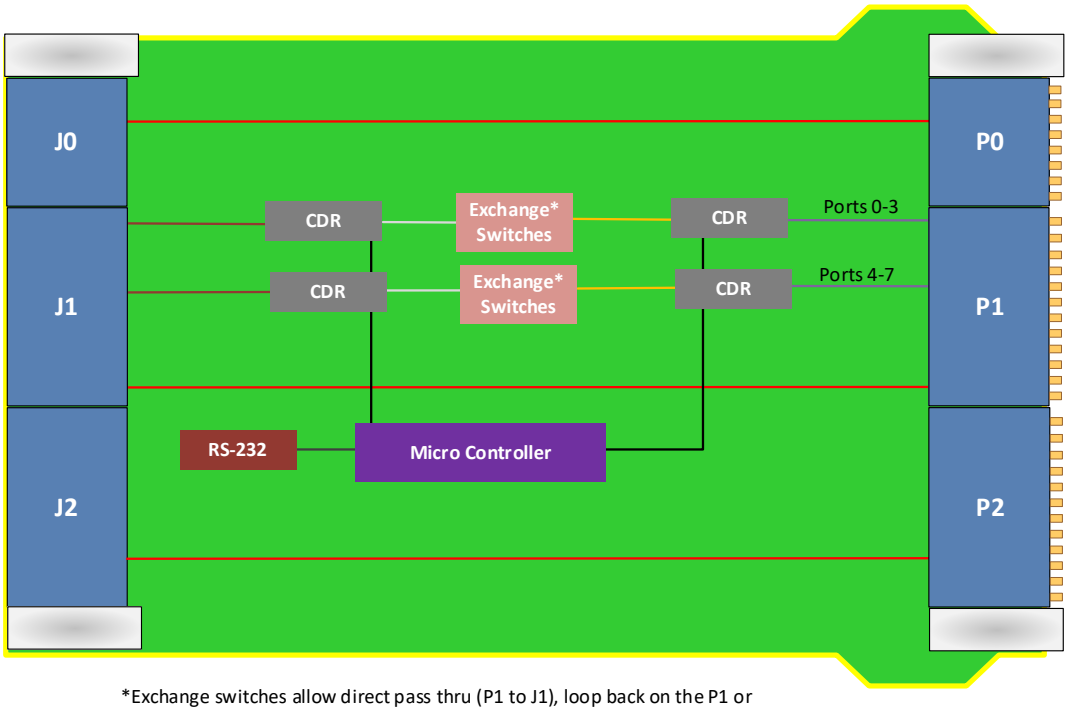


Figure 6: VPX995, Option A=0



*Exchange switches allow direct pass thru (P1 to J1), loop back on the P1 or loop back on the J1 for ports 0-3 and/or ports 4-7

Figure 7: VPX995, Option A=1

Specifications

Architecture		
Physical	**Dimensions**	3U VPX
Type	**VPX Extender**	Extender for the 3U Module
Standards		
VPX	**Type**	VITA 46.x, VITA 48.1
VPX	**Type**	VITA 65 OpenVPX
Configuration		
Power		N/A
Cooling		See Ordering Options
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

VPX995 – A00-000-GH0

A = Extender Type		G = Applicable Slot Profile
0 = Passive (all signals straight thru, no CDR) 1 = CDR on P1 lanes 0-7 plus loop back capability 2 = Reserved 3 = Reserved 4 = Reserved		0 = 5 HP, VITA 48.1
		H = Environmental
		0 = Reserved 1 = Reserved 2 = Conduction-Cooled

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