VPX4V180

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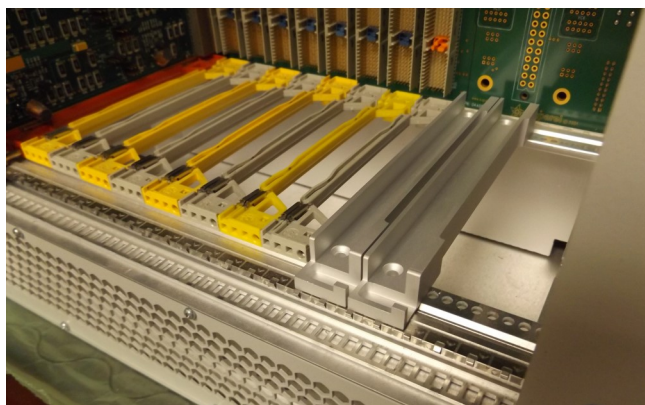
VPX™ RITTAL

VPX4V180 KEY FEATURES

- 4U vertical-mount chassis platform for 3U OpenVPX cards
- Supports RTMs for rear I/O
- Up to 18 slots OpenVPX slots (3U) at 0.8" pitch
- Card guides can be adjusted in .2" increments to accept various slot pitches
- Bottom-to-top cooling configuration. Front-to-rear cooled version is also available.
- Fixed or pluggable PSU solutions
- Redundant power supply options
- Low cost design
- Optional rubber "feet" for desktop applications
- Customization available

The VPX4V180 is a 4U vertical-mount chassis that holds up to eighteen 3U slots at a 0.8" pitch. The modular card guides can be adjusted to allow 1.0" pitch or other spacing in .2" increments. There are options for fixed modular power supplies for VPX voltages as well as power interface boards for VITA 62 or other pluggable PSUs. Conduction-cooled card guides are also available for testing and development.

The VPX4V180 has various power and backplane configuration options. Consult Pixus for off-the-shelf options and customized configurations.

Pixus Technologies' products leverage Rittal's sleek European quality mechanical designs without the hefty price tag. Customers enjoy proven, time-tested designs that are built in one of the largest manufacturing centers for electronics packaging in the world. With Pixus' subsystem integration expertise, the result is the best value in the industry for electronics enclosure systems.

CONDUCTION COOLED CARD GUIDES

The conduction-cooled card guides allow modules with wedge locks to be plugged into the enclosure.

ULTRAMOD POWER SUPPLIES FOR OPENVPX

Model	Vnom (V)	Set Point Adjust Range (V)	Dynamic Vtrim Range (V)	Imax (A)	Power (W)	Remote Sense	Power Good
XgA	12.0	10.8-15.6	-	12.5	150	-	-
XgB	24.0	19.2-26.4	-	8.3	200	-	-
XgC	36.0	28.8-39.6	-	5.6	200	-	-
XgD	48.0	38.5-50.4	-	4.2	200	-	-
XgE/Xg7	24.0	5.0-28.0	-	5.0	120	-	Yes
XgF/Xg8	24.0	5.0-28.0	-	3.0	72	-	Yes
	24.0	5.0-28.0	-	3.0	72	-	Yes
XgG	2.5	1.5-3.6	1.15-3.6	40.0	100	Yes	Yes
XgH	5.0	3.2-6.0	1.5-6.0	36.0	180	Yes	Yes
XgJ	12.0	6.0-15.0	4.0-15.0	18.3	220	Yes	Yes
XgK	24.0	12.0-30.0	8.0-30.0	9.2	220	Yes	Yes
XgL	48.0	28.0-58.0	8.0-58.0	5.0	240	Yes	Yes
Xg1	2.5	1.5-3.6	1.15-3.6	50.0	125	Yes	Yes
Xg2	5.0	3.2-6.0	1.5-6.0	40.0	200	Yes	Yes
Xg3	12.0	6.0-15.0	4.0-15.0	20.0	240	Yes	Yes
Xg4	24.0	12.0-30.0	8.0-30.0	10.0	240	Yes	Yes
Xg5	48.0	28.0-58.0	8.0-58.0	6.0	288	Yes	Yes

UltraMod powerPacs

	Model	Slots	Power	Medical Approval UL/EN60601-1 3rd edition	Industrial Approval UL/EN60950 2nd edition
UX	UX4	4	600W	Yes	Yes
	UX6	6	1200W	Yes	Yes

Pluggable Power Supplies

Pixus can also provide VITA 62 or other pluggable power supplies for OpenVPX. Our VITA 62 power interface boards are available in single or dual versions and both 3U and 6U. Pixus can also integrate VITA 62 slots into customized OpenVPX backplanes.

SPECIFICATIONS

Architecture		
Physical	Dimensions	4U
		Width: 19" rackmount
		Depth ~11"
Type	OpenVPX Chassis	Up to eighteen 3U OpenVPX slots (at 0.8" pitch)
Standards		
OpenVPX	Type	VITA 65, VITA 46
Configuration		
Power	VPX4V180	Up to 1200W supply AC or DC
		110-240AC with frequency from 47-63Hz and DC −36V to -72V
Environmental	Temperature	Operating Temperature: 0° to 55°C
		Storage Temperature: -40° to +70°C
	Altitude	10,000ft operating
		40,000ft. Non-operating
	Relative Humidity	5 to 95 percent, non-condensing
Conformal Coating		Humiseal 1A33 Polyurethane
		Humiseal 1B31 Acrylic
Other		
MTBF	MIL Handbook 217-F@ TBD Hrs.	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	ISO9001:2000 and AS9100B:2004 standards	
Compliance	RoHS and NEBS	
Warranty	Two years	
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ORDERING OPTIONS

VPX4V180-ABC-DEF

A = Power Type

0 = no PSU

1 = Ultramod 600W AC or DC, fixed

2 = Ultramod 1200W AC or DC, fixed

3 = 500W ATX PSU, fixed

4 = Other

B = Backplane Slots

0 = 5 slots

1 = 6 slots

2 = Other

C = Backplane RTM Load

0 = No RTM connectors

1 = Partially loaded RTM connectors

2 = All RTM connectors loaded

3 = Other

DE = Backplane Configuration

XX = Consult factory for available configurations and 2-digit number code

F = Card Guides

0 = Standard card guides

1 = Conduction cooled module card guides

2 = Custom (mix of standard and conduction-cooled card slots)

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Oct 2017 R5.0