

VPX4V180



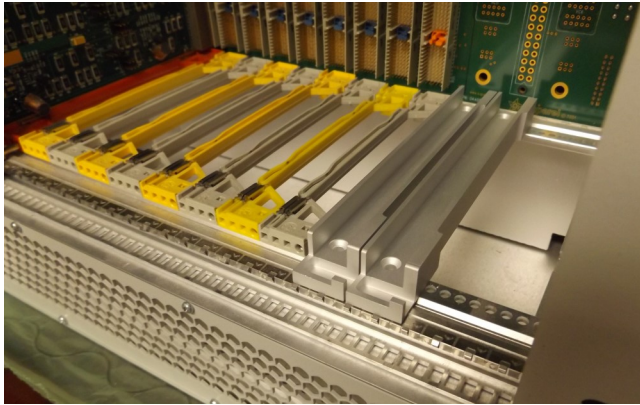
VPX4V180 KEY FEATURES

- 4U vertical-mount chassis platform for 3U OpenVPX cards
- Supports RTM connectors for Meritec cabling but not standard 80mm plug in boards (without customization)
- Supports lower to medium powered SOSA aligned or OpenVPX boards (avg of 40-50W per slot)
- Up to 16 slots OpenVPX slots (3U) at 1.0" 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.

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)	I _{max} (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	Approval	
				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.

Cooling

The VPX4V180 chassis is designed for lower to medium cooling requirements. It supports in the 40-50W per slot range. For higher power designs, our RiCool Chassis is recommended. <https://pixustechnologies.com/assets/uploads/VPX-6U-RiCool-High-CFM-Chassis-Datasheet.pdf>

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, SOSA	Type	VITA 65, VITA 46, SOSA
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	ISO9001:2015 and AS9100B:2004 standards	
Compliance	RoHS and NEBS	
Warranty	Two years	
Trademarks and logos	The Pixus Logo is a registered trademark of Pixus Technologies Inc. other registered trademarks are the property of their respective owners. Specs. subject to change without notice.	

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 Payload slots (Not including PSUs)

- 0 = 5 slots
- 1 = 6 slots
- 2 = Other
- 3 = 3 slots
- 4 = 2 slots
- 5 = 7 slots
- 6 = 1 slot
- 7 = 8 slots
- X = Backplane connectors not loaded in all slots

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)