OpenVPX 5U Chassis Platform, RiCool Blowers

VPX5VR180

Photo Coming Soon!

VPX5VR180 KEY FEATURES

- 5U 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, 1.0" pitch for other slot sizes typical
- Card guides can be adjusted in .2" increments to accept various slot pitches
- Front-to-rear cooled with powerful dual blowers: RiCool I @ 110 CFM/ea or RiCool V @ 191 CFM/ea
- Fixed or pluggable PSU solutions
- Redundant power supply options
- Low cost design
- Optional rubber "feet" for desktop applications
- Customization available

The VPX4VR180 is a 5U vertical-mount chassis that holds up to eighteen 3U slots at a 0.8" pitch. It features powerful reverse impeller RiCool blowers that reside directly above the card cage. The blowers provide up to 382 CFM in the chassis, pulling air from the front bottom of the enclosure and blowing the exhaust 90 degrees out the rear of the enclosure for a very efficient cooling configuration.

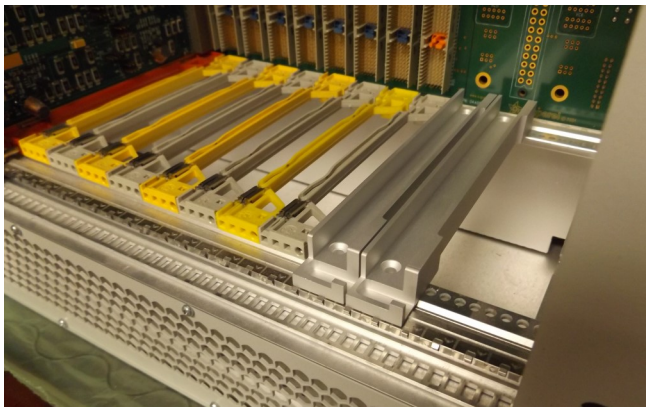
The modular card guides can be adjusted to allow 1.0" pitch or other spacing in .2" increments. Conduction-cooled card guides are also available for testing and development.

The VPX5VR180 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.

Pixus Technologies Inc. USA (631) 360-1257 Canada (519) 885-5775
Email: sales@pixustechnologies.com Website: www.pixustechnologies.com

CONDUCTION COOLED CARD GUIDES (Optional)



The conduction-cooled card guides allow modules with wedge locks to be plugged into the enclosure. This is used only for prototyping and development.

ULTRAMOD POWER SUPPLIES FOR OPENVPX (Optional)

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

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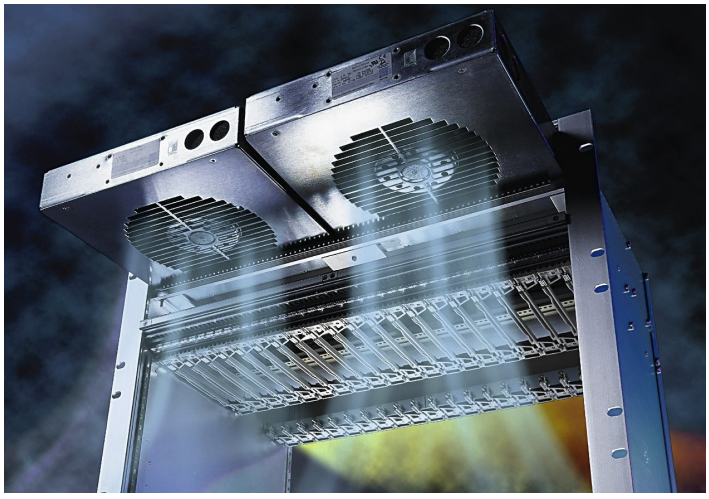
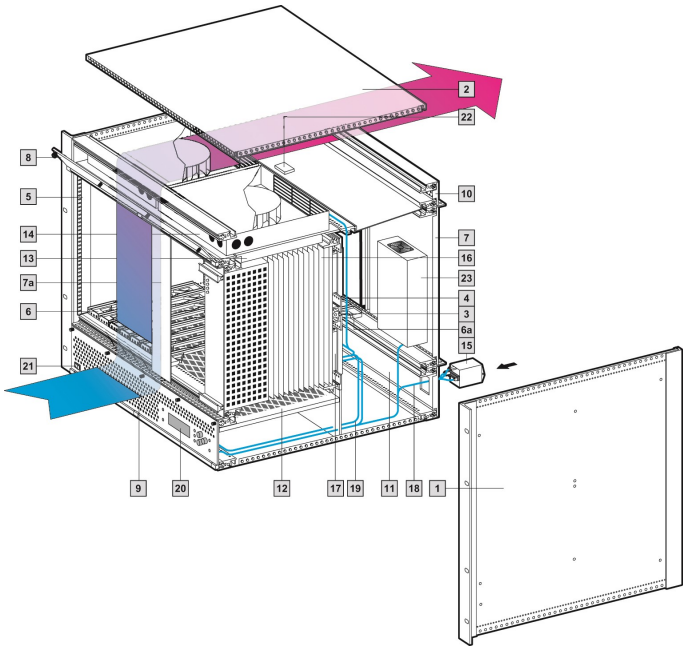
Pluggable Power Supplies (Optional)

Pixus can 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 sizes. Pixus can also integrate VITA 62 slots into customized OpenVPX backplanes.

Cooling Configuration





Examples of RiCool blowers in systems. The diagram on the right depicts a 6U board configuration.

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SPECIFICATIONS

Architecture		
Physical	Dimensions	5U
		Width: 19” rackmount
		Depth ~11”
Type	OpenVPX Chassis	Up to eighteen 4U OpenVPX slots (at 0.8” pitch)
Standards		
OpenVPX	Type	VITA 65, VITA 46
Configuration		
Power	VPX5VR180	Up to 1200W supply AC or DC, fixed. Higher power supplemental approaches are available.
		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	
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

VPX5VR180-ABC-DEF

A = Power Type

- 0 = no PSU
- 1 = Ultramod 600W AC or DC, fixed
- 2 = Ultramod 1200W AC or DC, fixed
- 3 = Pluggable VITA 62 PSU (contact Pixus for configuration)
- 4 = Other

B = Backplane Slots

- 0 = 5 slots
- 1 = 6 slots
- 2 = 12 slots
- 3 = 18 slots (0.8" pitch only)
- 4 = 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)