

## VPX4VC600



### VPX4VC600 KEY FEATURES

- 4U vertical-mount chassis platform that accepts 3U OpenVPX boards (see other datasheet for CompactPCI Serial version)
- 42HP (8.4") wide, compact size
- Supports RTMs for rear I/O
- Up to 6 slots OpenVPX slots at 1.0" pitch (other backplane slot sizes available)
- Card guides can be adjusted in .2" increments to accept various slot pitches
- Bottom-to-top cooling configuration (standard), other options available
- Standard 600W Modular AC PSU for VPX voltages or 350W ATX (other PSU types available upon request)
- Low cost design
- Optional aesthetic RiCase enclosure shell
- Customization available

The VPX4VC600 is a 4U vertical-mount chassis that holds up to six 3U slots at a 1.0" pitch. 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 VPX4VC600 has various power and backplane configuration options. We typically start from a 6-slot VITA 65 compliant backplane at PCIe Gen3 speeds and a fixed 600W modular PSU or 350W ATX. Consult Pixus for off-the-shelf options and tailored 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.

## PSU SPECIFICATIONS — Modular Version

AC input voltage	85 – 264 Vrms
Size	3 x 5 x 1.61 Inches
Power rating	600 Watts
Efficiency	Up to 89%
Power factor	0.99
Holdup	20mS
Ambient operating temperature	-20°C To 70°C (Derating above 50°C)
Input leakage current	< 1500uA
Output options	
OP1	1.5V-7.5V,25A, 125W
OP2	4.5V-15V, 15A, 150W
OP3	9V-30V, 7.5A, 150W
OP4	18V-58V, 3.75A, 150W
OP5	Dual 5V-15V, 5A, 2 x 75W
OP6	Dual 1.8V-5V, 5A, 2 x 25W
OP7	Dual 5V-15V/1.8V-5V, 5A, 75/25W

## PSU SPECIFICATIONS — ATX Version

### Output Specifications

Output Power	350W
Output Voltage & Current	+3.3V@16;+5V@16A;+12V1@18A;+12V2@18A;12V@0.3;+5Vsb(DC)@3A
Efficiency (%)	85%
Main Connector	ATX (20 + 4PIN)

### Mechanical

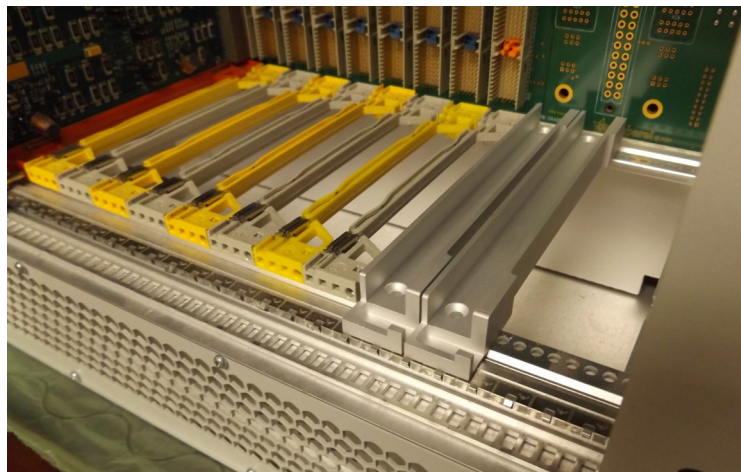
Form Factor	1U
Dimension (L x W x H)	150x81.5x40.5
Vibration	N/A
MTBF	200K
Fan Function	YES
Power Switch Function	NO

## SUBRACK EXAMPLE — VERSION WITHOUT FAN TRAYS



This version has perforated top/bottom covers for an external fan.

## CONDUCTION COOLED CARD GUIDES



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

## SPECIFICATIONS

<b>Architecture</b>		
Physical	Dimensions	4U
		Width: 42 HP (8.4")
		Depth ~285mm
Type	OpenVPX Chassis	Up to six 4U OpenVPX slots (at 1.0" pitch)
<b>Standards</b>		
OpenVPX	Type	VITA 65, VITA 46
<b>Configuration</b>		
Power	VPX4VC600	Up to 600W 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
<b>Other</b>		
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

### VPX4VC600-ABC-DEF-G

#### A = Power Type

- 0 = no PSU
- 1 = 600W AC—Modular
- 2 = 350W AC—ATX
- 3 = Other

#### B = Backplane Slots

- 0 = 6 slots
- 1 = Other

#### C = Backplane RTM Load

- 0 = No RTM connectors
- 1 = RTMs partially loaded
- 2 = All RTM connectors loaded
- 3 = Other

#### DE = Backplane Configuration

- 00 = BKP3-CEN06-15.2.7 profile
- XX = Other, consult factory for available configurations and 2-digit number

#### F = Chassis Exterior

- 0 = Brushed Aluminum (Standard)
- 1 = RiCase shell with swivel carry handle

#### G = Card Guides

- 0 = Standard card guides
- 1 = Conduction cooled module card guides
- 2 = Custom (mix of standard and conduction-cooled card slots)