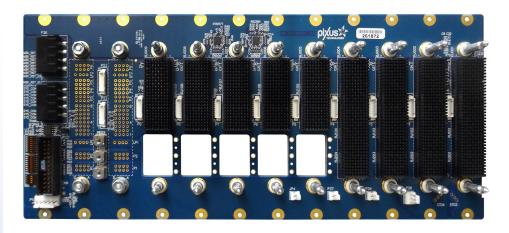
VPX607 Backplanes





(3U VITA 67 example shown)

VPX607 KEY FEATURES

- Compliant to latest VITA 65 and VITA 67.x specifications
- Various OpenVPX profiles—contact Pixus for details
- Various slot sizes and configurations available
- 6U backplane design
- 1.0" slot pitch standard, customized sizes available
- Data rate options up to 40Gbps and beyond
- Selectable rear IO options
- Fast turnaround, superior performance
- Customization available
- Conformal coating optional



OpenVPX is a process that defines system level VPX interoperability for multi-vendor, multi-module, integrated systems environment. The OpenVPX process defines clear interoperability points necessary for integration between Module to Module, Module to Backplane and Chassis. VITA 67 adds RF capability to the backplane with multi-position blind mate connectors.

Pixus has an experienced team of OpenVPX experts and can help you find or create the OpenVPX backplane profile for your application. We offer various data signal speed options and have optional testing services. Pixus is IS09001:2015 and ITAR registered

The backplanes are typically 1.0" pitch, but 0.8" pitch is available in some configurations. Contact Pixus for details.

Pixus Technologies can modify this product to meet special customer requirements without NRE (minimum order placement is required).





Pixus Technologies Inc USA (916) 297-0020 Canada (519) 885-5775 Email: sales@pixustechnologies.com Website: www.pixustechnologies.com



Specifications

Architecture		
Physical	Dimensions	Height: 6U
		Width: Depending on slot #
		Pitch: 1.0" or 0.8" standard
	Connectors	MultiGig RT-2, VITA 67.x coax
	Layers	18-24 layers typical
Standards		
VITA	Туре	VITA 65, VITA 46 for OpenVPX
	Туре	VITA 67 for RF over OpenVPX
Configuration		
Power		3.3V_AUX, 5V, +/- 12V, +/- 12V_AUX
Environmental	Temperature	Operating temperature: up to -40° to +85°C options
		Storage temperature: up to -55° to +90°C options
	PCB	FR406 or equivalent, Nelco4000-13SI, Meg6 or equivalent for higher speeds
		(consult Pixus)
	PCB traces	0.5 oz. copper standard
Conformal coating		Upon request (See page 6 selection "J" for available options)
Other		
MTBF	MIL Handbook 217-F @ TBD Hrs.	
Certifications	Designed to meet FCC, CE and EN/UL/TUV certifications where applicable	
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.	



Connectors & Signals

Connector Ratings

Multi-Gig RT-2:

Operating Voltage: 50 Volts AC peak or DC Current: 1 Ampere at <30°C (single circuit, free air)

Temperature: -55 to 105°C

Low level contact resistance, circuit: 80 milliohms maximum initial

5 milliohms maximum average increase 10 milliohms maximum individual increase

Low level contact resistance, compliant pin: 1 milliohm maximum initial

1 milliohm maximum change

Insulation resistance: 1000 megohms minimum

Withstanding voltage: 1 minute hold with no breakdown or flashover

Temperature rise vs. current: 30°C maximum temperature at 1 Ampere load, single circuit in free air using thermography

Mechanical Vibration, sinusodial:

Mechanical Vibration: No discontunuities of 1 microsecond or longer duration Mechanical Shock: No discontunuities of 1 microsecond or longer duration

Mating Force: 0.75 N [2.7 ozf] maximum per contact. Average for entire connector. Unmating Force: 0.15 N [.57 ozf] minimum per contact. Average for entire connector.

Compliant pin insertion: 31 N [7 lbf] maximum per pin average

Compliant pin retention: 13.35 N [3 lbf] minimum

Signal Definitions:

Fat Pipe: A channel that is comprised of four links (4 Tx pairs + 4 Rx pairs) is now being referred to as a fat pipe or by use of the x4 nomenclature. 10Gbps capable 10GBase-KX4, 10GBase-BX4, 10GBase-T, PCIe-x4, sRIO-x4, Infiniband-x4

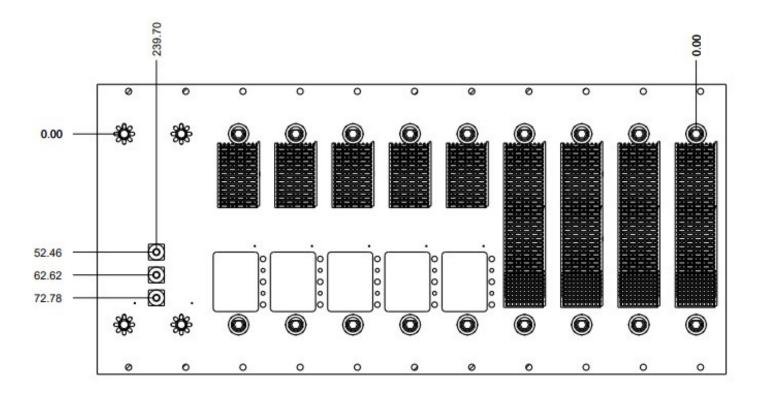
Thin Pipe: A channel that is comprised of two links (2 Tx pairs + 2 Rx pairs) is now being referred to as a thin pipe or by use of the x2 nomenclature. 5Gbps capable 10/100/1000Base-T, 1000Base-BX, PCIe-x2, sRIO-x2, Infiniband-x2

Ultra-thin Pipe: A channel that is comprised of one link (1 Tx pair + 1 Rx pair) is now being referred to as an ultra-thin pipe or by use of the x1 nomenclature. 10GBase-KR, IGBase-KX, PCIe-x1, sRIO-x1, Infiniband-x1a

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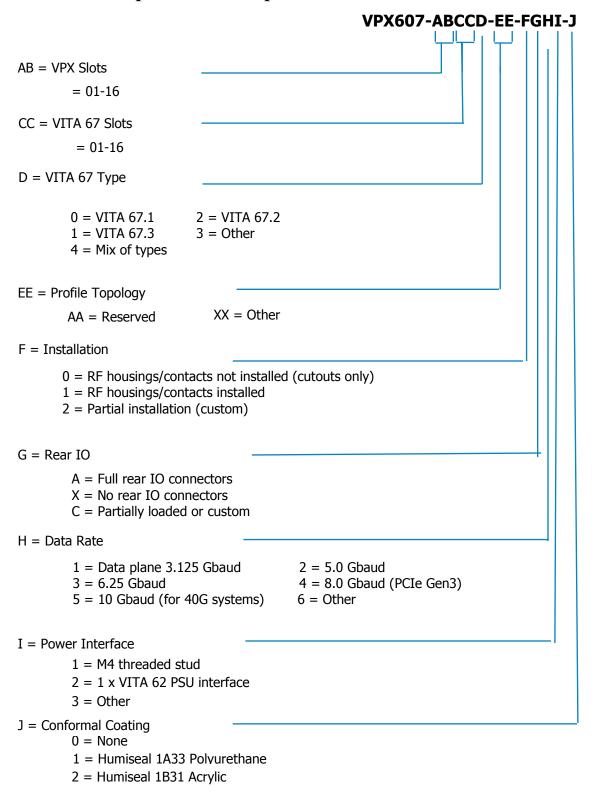


3U Drawing—9-Slot Example with 1.0" Pitch





Ordering Options VPX607=6U OpenVPX Backplane, VITA 67



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