OpenVPX Open Frame Development Chassis

VPXD0800, VPXD0500

VPXD0X00 KEY FEATURES

- Open Frame Development Chassis
- SOSA aligned versions optional
- Up to eight 6U or 3U OpenVPX slots at 1.0" pitch or ten slots at 0.8" pitch
- VITA 66 (Optical), VITA 67 (RF) and SOSA versions available
- Card guides can be adjusted in .2" increments to accept various slot pitches
- Optional conduction-cooled module card guides
- Dual 165 CFM fan cools front slots and RTMs (Other options available upon request)
- PSU options up to 1200W
- Convenient carry handle
- Low cost design

The VPXD0800 (6U board version) and VPXD0500 (3U board version) are open frame chassis, ideal for testing and development of VPX systems. Pixus Technologies has various VPX backplanes sizes/configurations available. Rear Transition Module (RTM) slots can also be plugged into the open frame enclosure.

The VPXD0800 and VPXD0500 have AC or DC PSU options up to 1200W. Contact Pixus if your payload power is above 1000W for optimal cooling options. The chassis comes with a convenient carry handle.

Backplanes with profiles aligned to the SOSA™ Technical Standard are available.

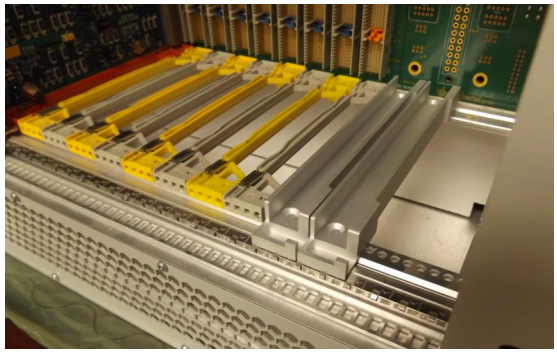
Pixus Technologies Inc. USA (916) 297-0020 Canada (519) 885-5775
Email: sales@pixustechnologies.com Website: www.pixustechnologies.com

Specifications

Architecture		
Physical	Dimensions	~9U (without carry handle) for VPXD0800. ~6U (without carry handle) for the VPXD0500
		Width: 8.92" outer, 8.60" inner (max recommended usable space is 8.0" for cabling, etc)
		Depth: ~11" Weight: ~21 lbs for VPXD0500 and ~28 lbs for VPXD0800 (dependent on configuration)
Type	OpenVPX Chassis	Up to eight 6U OpenVPX slots (at 1.0" pitch)
Standards		
OpenVPX, SOSA	Type	VITA 65, VITA 46, SOSA
Configuration		
Power	VPXD0X00	Up to 1200W supply AC (DC options 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	ISO9001:2015 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 trade-marks are the property of their respective owners. Specs. subject to change without notice.	

OpenVPX Open Frame Development Chassis

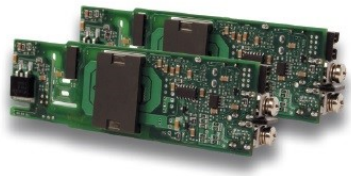
Card Guides For Conduction Cooled Boards and Power Board Options



- Single or dual VITA 62 PSU options
- 3U and 6U versions available
- Header for Sense, Share, and CMM signals

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

Pixus typically uses the UltraMod power supplies in the development enclosures. However, other PSUs are available upon request or as technical requirements specify.

Pixus will select the UX sub-modules based on the power per rail that you require and ensure that we provide ample wattage with overhead. We install a separate small PSU for fans in the chassis to reduce noise. The noise level for all rails on the Ultramod PSUs is guaranteed to be no more than the greater of 1% or 100mv.

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

SOSA Aligned Profiles

Pixus has multiple backplane options that support various SOSA slot profiles. SOSA aligned systems utilize just the 12V (VS1) rail along with some 3.3 AUX. The IPMB is routed across the backplane to support the use of a SOSA aligned chassis manager and VITA 46.11 compliant versions. Visit https://pixustechnologies.com/products/enclosure-system-solutions/vpx-vme64x-chassis-2/openvpx-3u-6u-sosa/ to see Pixus' offering of SlotSaver™ mezzanine-based and pluggable SOSA aligned/VITA 46.11 chassis manager options.

An examples of the wide variety of options are shown below. Several of the Pixus power and ground and routed backplanes have cutouts for Aperture H (VITA 67.3c) or other RF/Fiber sizes (Aperture J—VITA 67.3d, etc)

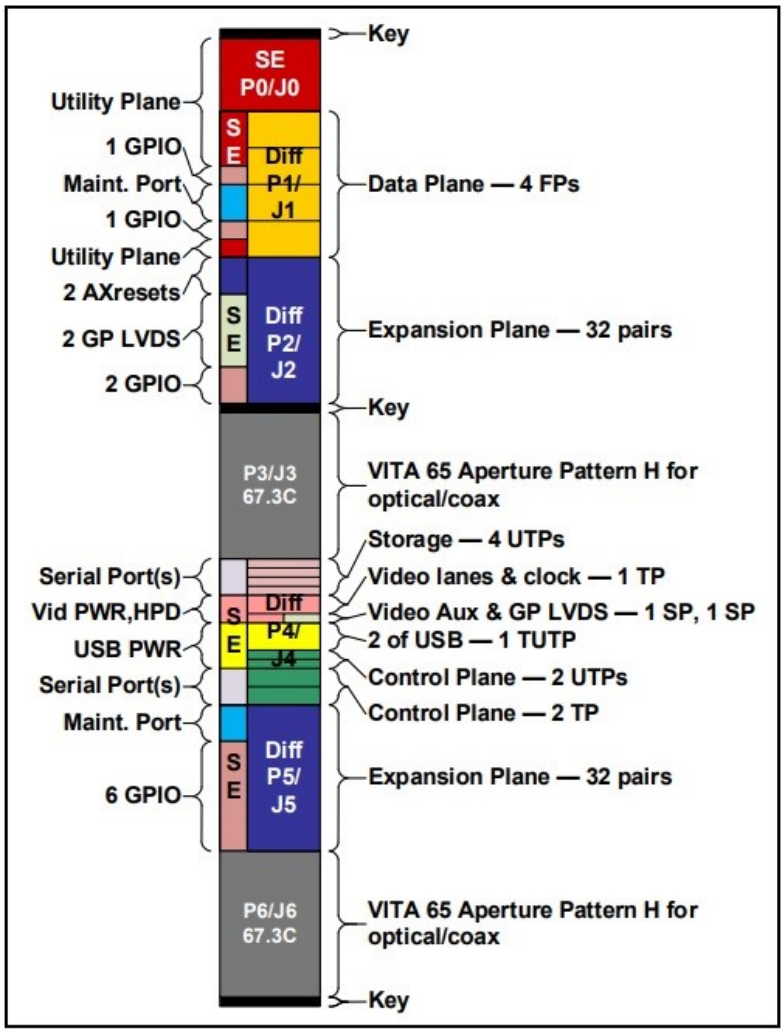
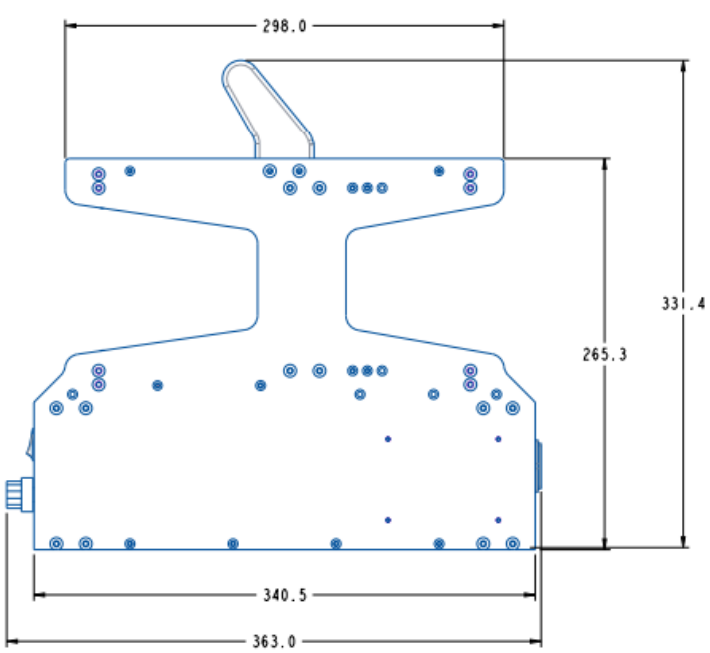
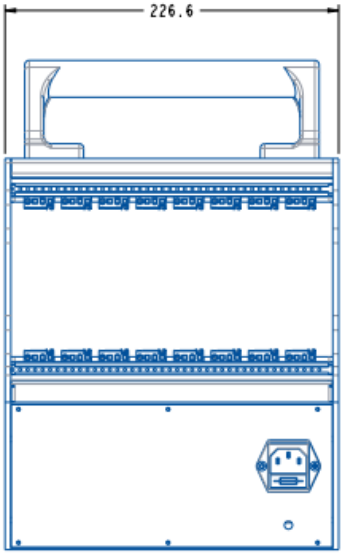


Figure 10.6.4-1 SLT6-PAY-4F2Q1H4U1T1S1S1TU2U2T1H-10.6.4-n

Chassis Dimensions





VITA 66 (Optical) & VITA 67 (RF) Examples for 6U and 3U backplanes, and rear-side example of a 3U VPX

Pixus offers various backplane configurations for VITA 66 and 67. Contact Pixus for details and ordering information.

ORDERING OPTIONS

(6U Boards): VPXD0800-ABC-DEF-XX
(3U Boards): VPXD0500-ABC-DEF-XX

A = Power Type

0 = no PSU
1 = Reserved
2 = 600W AC (standard)
3 = 1200W AC (standard)
4 = 600W DC
5 = Other

B = Backplane Payload slots (Not including PSUs)

0 = 2 slots
1 = 5 slots
2 = 6 slots
3 = Reserved
4 = Reserved
5 = Other
6 = 1 slot
7 = 3 slots
8 = 8 slots
9 = No backplane installed
X = backplane connectors not loaded in all slots

C = Backplane RTM Load

0 = No RTM connectors
1 = RJ2-RJ6 loaded all slots
2 = All RTM connectors loaded
3 = Other

DE = Backplane Configuration

AA = BKP3-CEN03-15.2.9
BA = BKP3-DIS05-15.2.13
BB = BKP3-DIS06-15.2.7
BC = BKP3-DIS06-15.2.14
BD = BKP3-DIS02-15.2.8
BG = BKP3-CEN07-15.2.3
CD = BKP3-CEN06-15.2.2
CC = BKP6-CEN05-11.2.5
PG = Power and Ground Backplane
XX = Other, 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)

2 digit customization code

Blank = standard, no customization