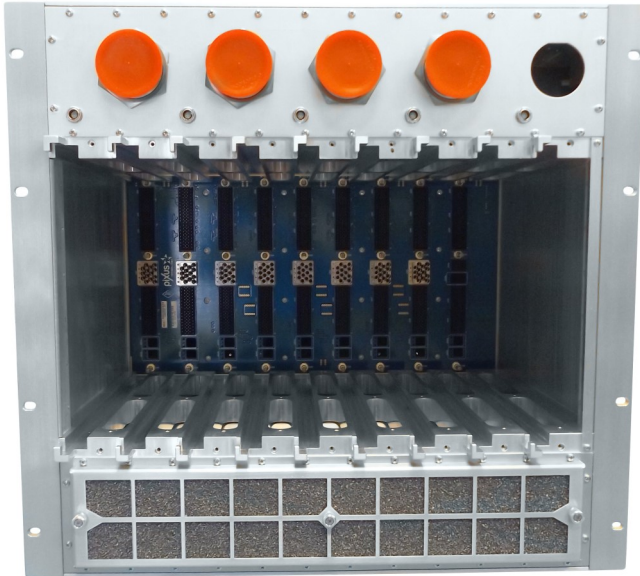


RRFAC6—6U Boards



KEY FEATURES

- 2U-12U rugged chassis platforms for 6U OpenVPX / SOSA™ aligned boards
- Versions aligned to the SOSA™ Technical Standard are optional
- Designed for use in MIL-810 and MIL-901D systems for shock/vibration
- Designed to meet MIL-461 for EMI
- Humidity levels of 0% and 95% non-condensing, conformal coating options
- Versions for VITA 48.8 Air Flow Through are optional
- Ruggedized PSUs to MIL specs with VITA 62 / SOSA options
- Versions with RTM access are optional
- Options with up to 50 ms hold-up time
- 6U OpenVPX or other/custom backplanes
- Vertical mount for 8U-12U versions, 2U-6U are horizontal-mount
- MIL-grade fans and cabling
- Front-to-rear cooling standard with other cooling options available
- Temperature ranges of -20C to +70C (industrial rugged) up to -40C to +85C (MIL rugged)

The RR19XUFAC6 is a rugged rackmount chassis platform for use in Mil/Aero or other harsh environments. It is designed to meet shock/vibration to MIL-810 and 901D and MIL-461 for EMI. The chassis features air and power filtering with optional power redundancy and hold-up time. 6U OpenVPX backplanes are typical, but other architectures are available. Options for VITA 66 (optical), VITA 67 (RF), and for SOSA/HOST requirements.

Various PSU input and output options are available. For rugged designs typically VITA 62 or comparable PSUs are used.

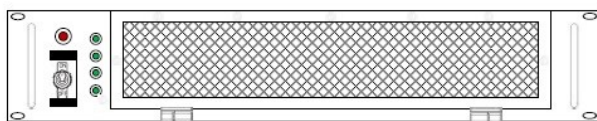
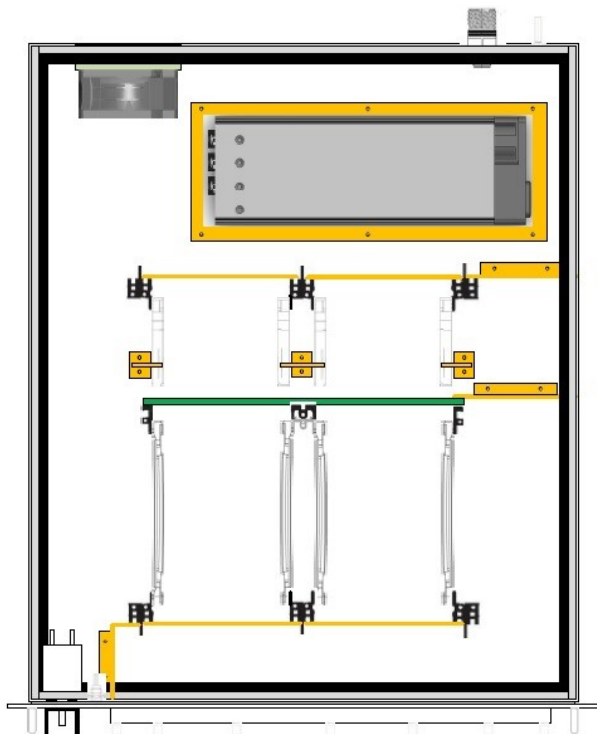
Pixus specializes in customized configurations, contact us to discuss your specific requirements.

POWER

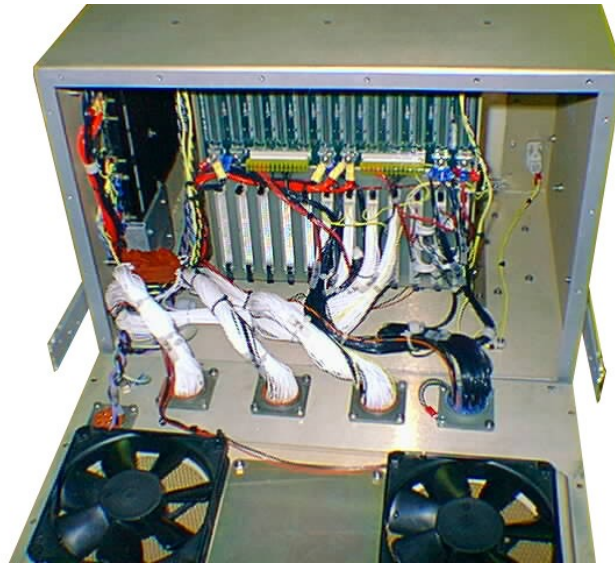
The RR19XUFAC can employ various grades of PSUs. Typically 6U tall VITA 62 PSUs are utilized with various wattage and input options. However, other PSU options are available. VITA 62 power supplies are designed for avionics and other MIL rugged applications and conform to MIL-STD-704, 461, and 810. There are also various options for AC or DC power feeds (typically 24-48VDC, or 90-264 VAC, 3-phase AC). Consult with Pixus for your power requirements.



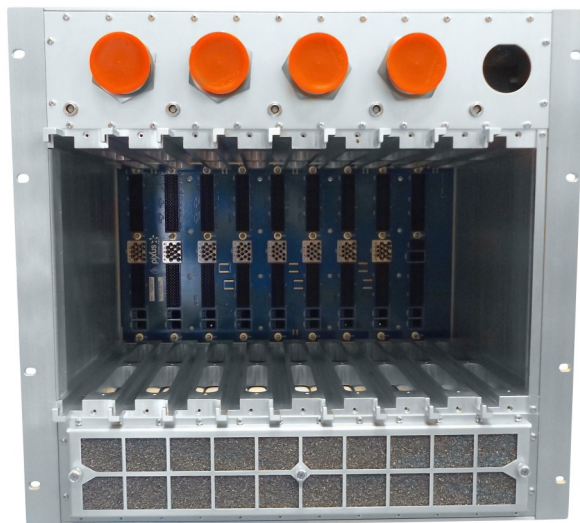
INTERNAL EXAMPLE—Horizontal Mount Version



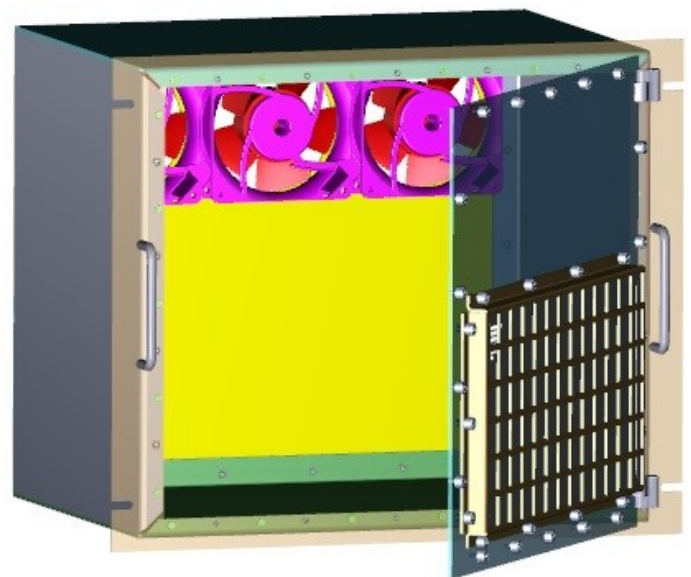
Rear Example —Vertical Mount Version



VITA 67.3 RF Example - deep boards



Model of Vertical Mount Style



SOSA Aligned Versions

Pixus has multiple backplane options that support the 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.

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)

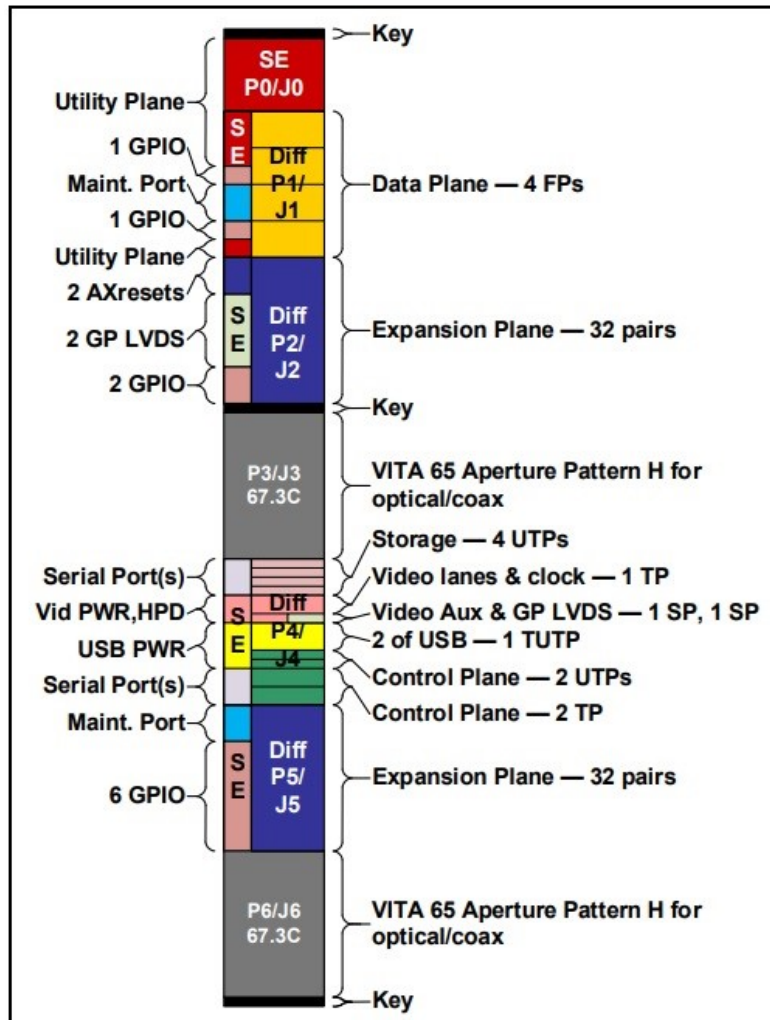


Figure 10.6.4-1 SLT6-PAY-4F2Q1H4U1T1S1S1TU2U2T1H-10.6.4-n

SPECIFICATIONS

| | | |
|----------------------|---|--|
| Architecture | | |
| Physical | Dimensions | Height: 2U-12U |
| | Pitch | 1.0" slot pitch standard, 0.80" optional |
| | | Width: 19" |
| | | Depth: 12.5" - 23"* |
| Type | | *consult Pixus for other size options |
| Standards | | |
| DO-168 | Type | DO-168 options |
| VITA/ANSI | Backplane, Chassis | VITA 65 for OpenVPX (optional), IEEE 1101.10/.11, VITA 66 (optical) options, VITA 67 (RF) options, VITA 48 |
| MIL-STD | Type | 810F (shock, vibration to 20G, environmental), 461F (EMI) |
| Configuration | | |
| Power | Type | Options for 24-28VDC, 48VDC, 90-264VAC input @ 47-880Hz |
| | | Various output options (3.3V, 5.5V, +/- 12V) |
| Environmental | Temperature | Operating temperature: up to -40° to +71°C (application dependent) |
| | | Storage temperature: up to -55° to +90°C |
| | Altitude | Application dependent, consult Pixus for details |
| Conformal Coating | | Upon request (See page 4 selection "J" for available options) |
| | | 0 and 95% humidity, non condensing |
| Other | | |
| MTBF | Varies, consult factory for specifics | |
| Certifications | Designed to meet FCC, CE and UL certifications where applicable | |
| Standards | ISO9001:2015 | |
| Compliance | Designed to MIL-STD-810, MIL-STD-461 (optional) | |
| 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

(Previously RR19XUFAC6 prefix)

RRFAC6-HABCCD-EFGI-JK

H = Height

- 1 = 8U
- 3 = 5U (horizontal-mount)
- 5 = 9U (most common)
- 2 = 3U (horizontal-mount)
- 4 = Other
- 6 = 10U

A = Backplane

- 1 = 6U OpenVPX / SOSA aligned (standard)
- 2 = Other

B = Backplane Speed

- 1 = 6.25 GB/s
- 3 = 40GbE or equivalent
- 5 = 100GbE or equivalent
- 2 = 8 GB/s (for PCIe Gen3)
- 4 = Other

CC = Payload Slots

- Example 0n = n slots
- 01 = 1 slot
- 02 = 2 slots
- 03 = 3 slots
- 09 = 9 slots

D = PSU Slots

- 1 = 1 VITA 62 / SOSA slot
- 2 = 2 VITA 62 / SOSA slots
- 3 = Other

E = PSU Input

- 1 = 12-36V DC
- 3 = 48V DC
- 2 = 90-230V AC
- 4 = Other

F = PSU Output

- 1 = Up to 1000W
- 3 = Up to 2400W
- 5 = Other
- 2 = Reserved
- 4 = Reserved

G = Hold-up Time

- 0 = n/a
- 1 = 50 ms
- 2 = Other

I = Cooling

- 1 = Front-to-rear airflow, standard
- 2 = Other
- 3 = VITA 48.8 Air Flow Through (AFT) module, front-to-rear airflow

J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

K = Finish/Coating

- 0 (or Blank) = Clear chromate finish (standard)
- 1 = Painted (contact Pixus for options)
- 2 = Anodized (external only)