

# 19" Rackmount Rugged Chassis Platforms— Air Cooled



## RR19XUFAC



### KEY FEATURES

- 2U-5U rugged chassis platforms
- 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
- Ruggedized PSUs to MIL specs with VITA 62 options to 600W each
- Versions with RTM access are optional
- Options with up to 50 ms hold-up time
- 3U OpenVPX or other/custom backplanes
- 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 RR19XUFAC 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. 3U OpenVPX backplanes are typical, but other options are available.

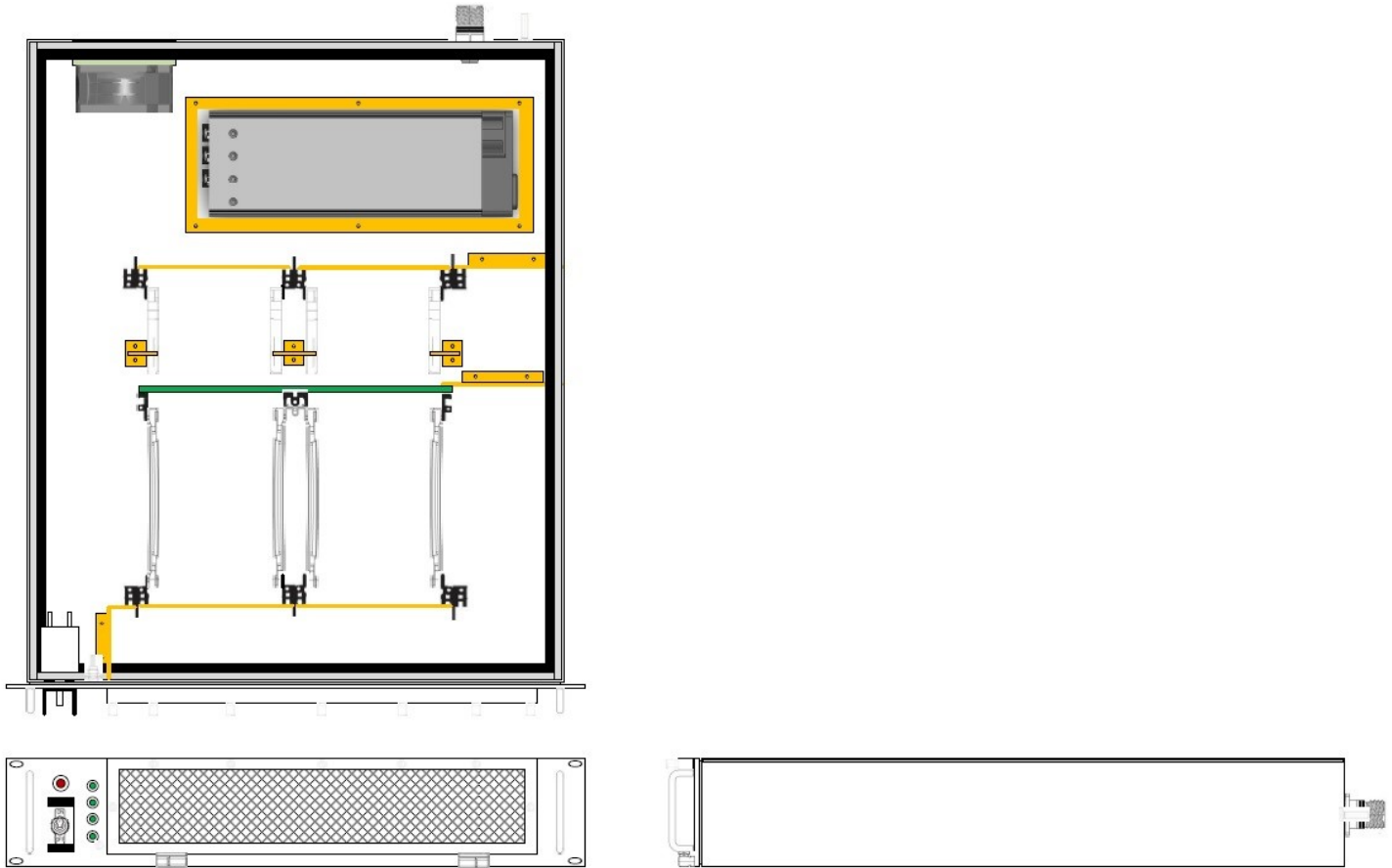
Various PSU input and output options are available. For rugged designs typically VITA 62 or comparable PSUs are used.

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

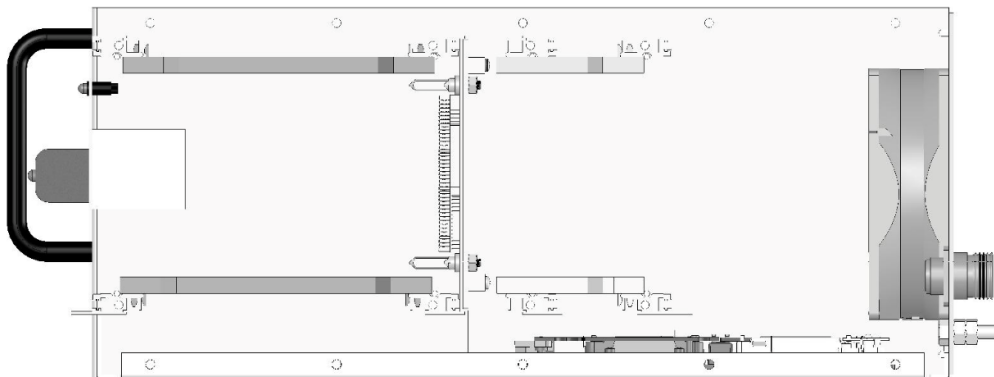
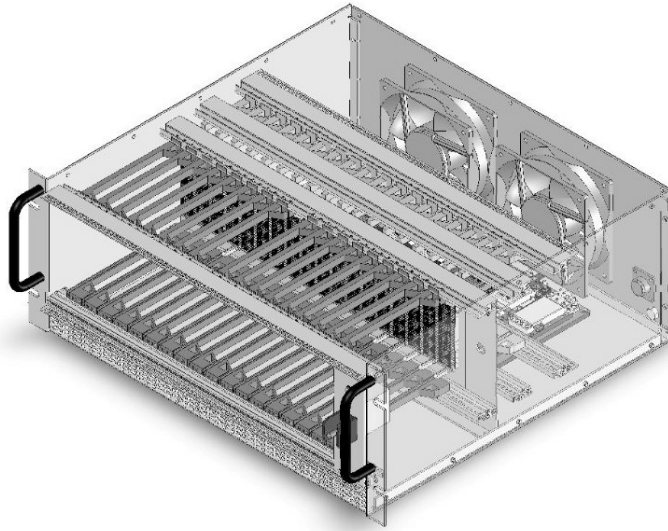
## POWER

The RR19XUFAC can employ various grades of PSUs. Typically VITA 62 PSUs are utilized, up to 600W. 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).

## INTERNAL EXAMPLE—Horizontal Mount Version



## INTERNAL EXAMPLE—Vertical Mount Version



This example is a 4U OpenVPX 18-slot without RTMs. Versions with RTMs are also available.

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## SPECIFICATIONS

Architecture		
Physical	Dimensions	Height: 2U-5U
	Pitch	1.0" slot pitch standard, 0.80" optional
		Width: 19"
		Depth: 19.5" - 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
MIL-STD	Type	810F (shock, vibration to 20G, environmental), 461F (EMI)
Configuration		
Power	Type	24-28VDC, 48VDC, 90-264VAC input @ 47-880Hz
		Various output options (3.3V, 5.5V, +/- 12V)
Environmental	Temperature	Operating temperature: -40° to +85°C
		Storage temperature: -55° to +90°C
	Altitude	Up to 30,000ft operating, other options available
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	ISO9001:2010	
Compliance	MIL-STD-810, MIL-STD-461	
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

### RR19XUFAC-AHBCCD-EFGH-J

#### H = Height

- 1 = 2U
- 2 = 3U
- 3 = 5U
- 4 = Other

#### A = Backplane

- 1 = 3U OpenVPX (standard)
- 2 = Other

#### B = Backplane Speed

- 1 = 6.25 GB/s
- 2 = 8 GB/s (for PCIe Gen3)
- 3 = 10 GB/s (for 40GbE)
- 4 = Other

#### CC = Slots

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

#### D = PSU Slots

- 1 = 1 VITA 62 slot (standard)
- 2 = 2 VITA 62 slots
- 3 = Other

#### E = PSU Input

- 1 = 24-28V DC
- 2 = 90-230V AC
- 3 = 48V DC
- 4 = Other

#### F = PSU Output

- 1 = Up to 300W
- 2 = Up to 300W Redundant
- 3 = Up to 600W
- 4 = Up to 600W Redundant
- 5 = Other

#### G = Hold-up Time

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

#### H = Cooling

- 1 = Front-to-rear
- 2 = Other

#### J = Conformal Coating

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