

ATR012/ATR034 Chassis



KEY FEATURES

- Rugged MIL 1/2 or 3/4 ATR enclosure for 3U or 6U boards
- Top-loaded, sealed conduction cooled enclosure
- 1/2 ATR: short version to 6+1 slots and long version to 10+2 slots
- 3U OpenVPX, CompactPCI Serial, or custom backplanes
- 6U versions optional, up to 6 slots.
- Various VITA 62 pluggable PSU options available, AC or DC
- Optional custom front panel options with filtering, MIL 38999 connectors, etc.
- Designed to MIL-STD-461 for emissions & susceptibility and MIL-STD-810 for temperature, shock, vibration, humidity, fungus, & salt fog

The ATR012 and ATR034 are MIL-rugged ATR enclosures designed for MIL specifications for airborne, shipboard, and other hardened applications.

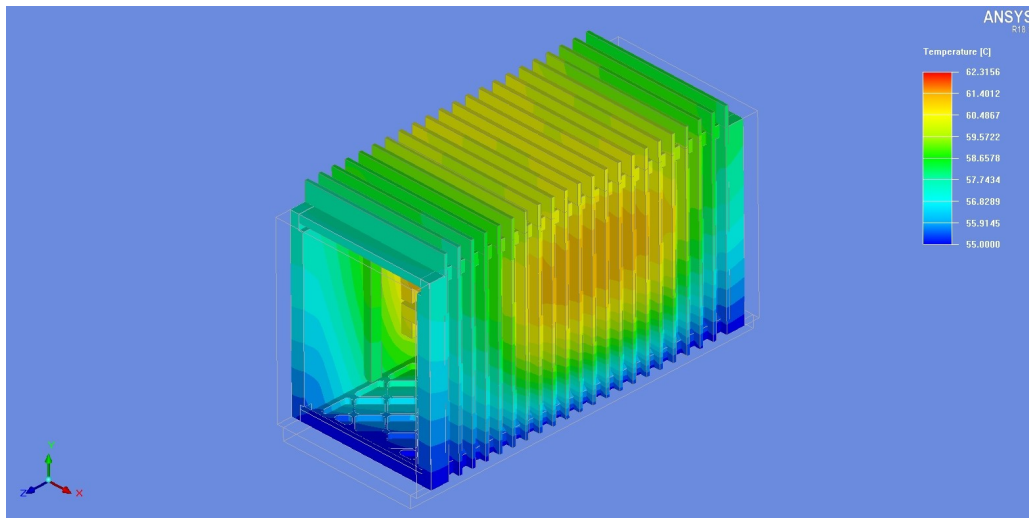
With a modular, top-loaded design approach, various 3U or 6U configurations are available with customizable front panel I/O. Mounting trays and other accessories are also available. Contact Pixus for details.

POWER

Pixus works with several PSU vendors for the optimal power solution for your application. Typically, VITA 62 PSUs are utilized with 85-264V universal AC and 18-40V DC input options. There are additionally versions for 3-phase AC power. The VITA 62 power supplies are designed for the rigors or airborne and other rugged applications and meet the applicable MIL 704, 810, and 461 standards. Optional 50ms (or other) hold-up time typically achieved with separate plug-in or specialty modules. Contact Pixus for more details for your specific power requirement.

COOLING

Pixus performs preliminary thermal simulations for modified standard designs to meet the requirements of each application. Additional thermal simulation services are available. Pixus will find the optimal cooling approach for your loading configuration.



SPECIFICATIONS

Architecture		
Physical	Dimensions	Height: 7.62"*
	Pitch	1.0" slot pitch standard
	(from aspect of front of card cage)	Width: 1/2 ATR: 4.88" 3/4 ATR: 7.50"
		Depth: Short: 12.52" Long: 19.52"
Type	ATR chassis	*consult Pixus for other options
Standards		
ARINC	Type	ARINC 404, 600
VITA/ANSI	Backplane, Chassis	VITA 65 for OpenVPX (optional), VITA 48.1/.2
MIL-STD	Type	810G(shock, vibration to 20G, environmental), 461G (EMI)
Configuration		
Power	Type	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 40,000ft operating*
Conformal Coating		Upon request (See page 6 selection "J" for available options)
Other		
MTBF	25 degrees GB 82,000 hrs, 65 degrees A/C 27,000 hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	ISO9001:2015 and AS9100B:2004 standards	
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.	

12 = 1/2 ATR Size
34 = 3/4 ATR Size

ORDERING OPTIONS

ATROXX-ABCDD-EFG-J

A = Backplane

- 1 = 3U OpenVPX
- 2 = 6U OpenVPX
- 3 = Other

B = Backplane Speed

- 1 = 3.125 Gbps
- 2 = 6.25 Gbps
- 3 = 8 Gbps (PCIe Gen3)
- 4 = Other

C = Depth

- 1 = Short 12.52"
- 2 = Long 19.52"
- 3 = Other

DD = Slots

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

E = PSU Input

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

F = PSU Output

- 1 = Dual Output, (among 3.3V, 5V, 12V, -12V) to 300W
- 2 = Dual Output, 300W to 500W
- 3 = Dual Output, above 500W
- 4 = Tri Output, (among 3.3V, 5V, 12V, -12V) to 300W
- 5 = Tri Output, 300W to 500W
- 6 = Tri Output, above 500W
- 7 = Other

G = Cooling

- 1 = Natural convection (standard)
- 2 = Other

J = Conformal Coating

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