

1/2 ATR Chassis, Conduction Cooled, Modular



ATR012 CC



KEY FEATURES

- Modular Rugged MIL 1/2 ATR enclosure
- Customizable enclosure based upon proven modular components & techniques
- Top or front loaded, sealed with heat exchange option
- Short or Long depths and Short or Tall heights
- 3U backplanes to 9-slot OpenVPX, CompactPCI, or VME64x. 6U versions to 5-slots
- Optional pluggable PSU/VITA 62 slot
- Conduction cooled to 80W/slot with heat exchangers (contact Pixus for higher heat dissipation options)
- PSU options to 450W, fixed or pluggable
- 12V, 5V, and 3.3V power outputs standard
- Optional custom front panel options with filtering, MIL 38999 connectors, etc.

The ATR012 is a modular MIL-rugged ATR enclosure. The versatile design allows multiple customizable configuration based on proven components and design techniques. Pixus Technologies leverages over 20 years of superior cooling, mechanical design, and backplane innovation.

The ATR012 features a rugged, construction that is assembled via dip brazing. The 1/2 ATR size is compliant to ARINC 404 and ARINC 600. The ATR enclosures are designed to meet MIL-STD-810F for shock and vibration and for MIL-STD-461F for EMI.

The Pixus ATR012 has optional MIL-STD-704F power supplies. The ATR012 can be configured with components suited for altitudes above 30,000 feet.

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

SPECIFICATIONS

Architecture		
Physical	Dimensions	Height: 195 mm to 270 mm (configuration dependent)
	(from aspect of front of card cage)	Width: ~ 125mm for 1/2 ATR Depth: 248 mm to 498 mm (configuration dependent)
Type	ATR chassis	
Standards		
ARINC	Type	ARINC 404, 600
MIL-STD	Type	810F (shock, vibration to 20G), 461F (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 30,000ft operating
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 UL certifications where applicable	
Standards	ISO9001:2000 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 trademarks are the property of their respective owners. Specs. subject to change without notice.	

ORDERING OPTIONS

ATR012-ABCDD-EFG-00J

A = Depth

T = Long (to 320 mm)
S = Short (to 248 mm) X = Extra Long (to 498 mm)

B = Height

M = Medium (to 225 mm)
S = Short (to 195 mm) T = Tall (to 270 mm)

C = Backplane

1 = 3U CompactPCI
2 = 3U OpenVPX
3 = 3U VME
4 = 6U CompactPCI
5 = 6U OpenVPX
6 = 6U VME
7 = 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 = Custom

F = PSU Output

1 = Dual Output, (among 3.3V, 5V, 12V, -12V) to 200W
2 = Dual Output, 200W to 350W
3 = Dual Output, above 350W
4 = Tri Output, (among 3.3V, 5V, 12V, -12V) to 200W
5 = Tri Output, 200W to 350W
6 = Tri Output, above 350W
7 = Other

G = Cooling

1 = Sealed
2 = Sealed with heat exchange

J = Conformal Coating

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