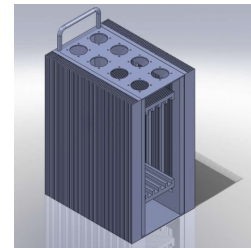
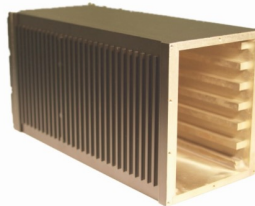


ATR034

Preliminary Datasheet



ATR034T KEY FEATURES

- Rugged MIL 3/4 ATR enclosure
- Top or front loaded, sealed or heat exchange
- ARINC 404 versions available
- Short or Long depths and Short or Tall heights
- 3U backplanes to 9-slot OpenVPX, CompactPCI, or VME64x. 6U versions to 7-slots
- Optional pluggable PSU/VITA 62 slot (s)
- 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 ATR034T is a MIL-rugged ATR enclosure, with ARINC 404 versions available. Pixus Technologies leverages over 20 years of superior cooling, mechanical design, and backplane innovation.

The ATR034T features a rugged, dip-brazed construction in the 3/4 ATR size and compliant to ARINC 404 and ARINC 600. The conduction-cooled with heat exchangers can dissipate up to 80W/slot (contact Pixus for higher requirements). The ATR enclosures are designed to meet MIL-STD-810G for shock and vibration and MIL-STD- 461F for EMI as well as IEEE 1101.10 specifications.

The Pixus ATR034T has a pluggable conduction-cooled PSU standard and fixed mount power options are also available. The ATR034T 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 Type ARINC 404, 600
MIL-STD	Type	810F (shock, vibration to 20G), 461D (EMI)
Configuration		
Power		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	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.	

Power Supply—Pluggable Version

Parameter	Rating	Notes
Vin max range	18 to 36 VDC	Baseplate temperature
Temperature	-40 to +85	
Combined output power	550W	
Input power	640W	@ 550W out (28VDC input)
Max +5V power	224W	
Max +3.3V	224W	
Max +12V power	112W	
Max -12V power	112W	

Cooling Options

An optional high performance MIL-grade axial fan is available for hybrid conduction-cooled with supplemental air cooling. Contact Pixus for liquid-cooled options.

IO/Cabling Options

An optional removable front panel offers access to custom IO options. Contact Pixus on details for IO integration. Flexcircuit designs are also optional.

Temperature - Operating, Storage

The operating temperature range is -40 degrees C to +85 degrees C. The storage temperature is -55 degrees C to +90 degrees C.

Backplane

The 6U or 3U backplane options include OpenVPX, VME64x, CompactPCI, and other Eurocard architectures. Maximum slot width is 7 slots. OpenVPX backplane options include hybrid VME64x/VPX in data rates of 3.125, 5.0, or 6.25 Gbaud/sec. Contact Pixus to discuss OpenVPX profile configurations.

ORDERING OPTIONS

ATR034-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