5/8 ATR Development Chassis, Sealed with Heat Exchange

ATRD058-HEX-3U

KEY FEATURES

- 5/8 OpenVPX Development ATR enclosure for 3U boards
- Versions for 6U boards available upon request
- Fully ruggedized with MIL-grade or commercial cabling for demo purposes
- Sealed conduction cooled enclosure with dual rear heat exchanger + extended internal fins
- Up to 6 slots at 1.0" pitch + VITA 62 PSU slot
- 233mm H x 134mm W x 336mm D
- 3U OpenVPX or custom backplanes
- Conduction cooled to 375W payload with heat exchanger (contact Pixus for higher heat dissipation options)
- PSU options to 600W (24-48VDC, or 90-264 VAC), please note max cooling above
- 12V, 5V, and 3.3V power outputs standard
- Customizable backplane I/O, cabling, and front panel I/O

The ATRD058HEX-3U is a MIL-rugged Development ATR enclosure. Pixus leverages our library of OpenVPX backplane profiles to provide you with a solution to meet your requirements and minimize NRE costs.

Depending on your needs, Pixus will customize the backplane I/O, cabling, and I/O to your specifications. A backplane configuration part number will be provided separately. The rear of the enclosure has dual 202 CFM/ea. heat exchangers. The inside of the ATR is fully enclosed, while the outside shell pulls air through the sidewalls for enhanced cooling.

Mounting trays and other accessories are also available. Contact Pixus for details.

Pixus Technologies Inc. USA (916) 297-0020 Canada (519) 885-5775
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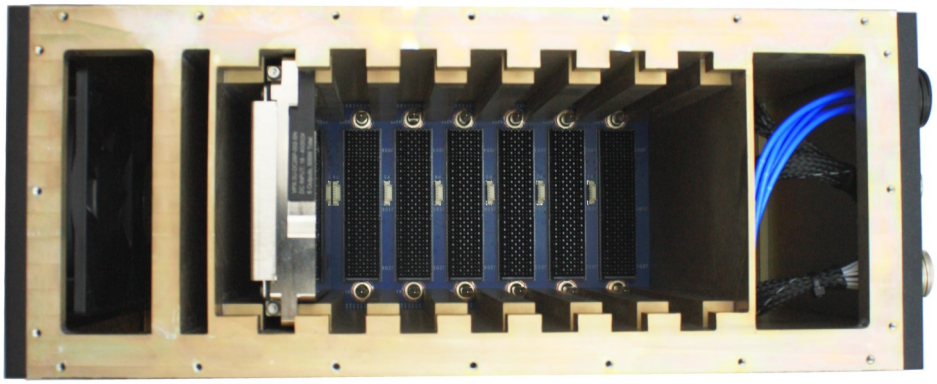
POWER & COOLING

The ATR058-HEX-3U 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). Note that the PSU may be rated for up to 600W, but the recommended max chassis cooling is 375W. Dual 202 CFM/ea. commercial-grade fans are standard, but MIL-grade fans are available upon request.

TOP VIEW



REAR VIEW

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SPECIFICATIONS

Architecture		
Physical	Dimensions	Height: 233mm*
	Pitch	1.0" slot pitch standard, 0.85" optional
	(from aspect of front of card cage)	Width: 134mm*
		Depth: 336mm*
Type	ATR chassis	*consult Pixus for other size options
Standards		
ARINC	Type	ARINC 404, 600
VITA/ANSI	Backplane, Chassis	VITA 65 for OpenVPX (optional), VITA 48.1/.2
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
Conformal Coating		Upon request (See page 4 selection "J" for available options)
Other		
MTBF	Varies	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	ISO9001:2000	
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.	

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ORDERING OPTIONS

ATRD058-HEX-ABCCD-EFG-J

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 = 48V DC
3 = 90-230V AC
4 = Other

F = PSU Type

1 = VITA 62 to 400W
2 = VITA 62 to 500W
3 = VITA 62 to 850W (for 6U)
4 = VITA 62 to 1000W (for 6U)
5 = Other

G = Cooling

1 = Sealed with heat exchange (standard)
2 = Sealed with heat exchange, fan not installed

J = Conformal Coating

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