

ATR012 CC







KEY FEATURES

- Modular Rugged MIL 1/2 ATR enclosure for 3U OpenVPX
- Versions for SOSA requirements available
- Customizable enclosure based upon proven modular components & techniques
- Front or rear loaded
- Short or Long depths and Short or Tall heights
- 3U backplanes up to 5 slots of OpenVPX or other architectures, SOSA options
- Facilitates VITA 66 (optical) and/or VITA 67 (RF) cabling
- Optional pluggable PSU/VITA 62 slot PSU options, MIL 704
- 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, geared for 3U OpenVPX designs. 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 with dip brazing. The ATR enclosures are designed to meet MIL-STD-810 for shock and vibration, MIL-STD-461 for EMI, and DO-160 for avionics requirements.

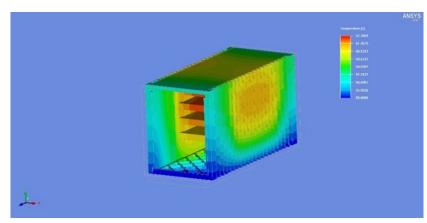
The Pixus ATR012 has optional MIL-STD-704F power supplies. The ATR012 can be designed/configured with components suited for altitudes above 30,000 feet.



3+1 slot, 3U OpenVPX 1/2 ATR, rear loaded example







Specifications of 3 VPX + 1 PSU slot example:

- 6" High x 4.88" width x 10.75" long
- 3-slot OpenVPX backplane, BKP3-CEN03-15.2.9 profile is optional 1 VITA 62 PSU (300W-600W, 28VDC input standard), various wattage and inputs optional
- Dip-brazed or screwed versions optional
- Heat dissipation in excess of 175W
- Weight: approx. 20 lbs.



SPECIFICATIONS

Architecture		
Physical	Dimensions	Height: 152.5 mm to 254 mm (configuration dependent)
	(from aspect of front of card cage)	Width: ~ 124mm for 1/2 ATR
		Depth: 248 mm to 352 mm (configuration dependent)
Туре	ATR chassis	
Standards		
ARINC	Туре	ARINC 404, options for 600
MIL-STD	Туре	810 (shock, vibration), 461 (EMI), 704 (power), D0-160 (avionics)
VITA	Specification	VITA 48, VITA 65, VITA 66 (optional), VITA 67 (optional)
Configuration		
Power	Туре	28VDC, 48VDC, 90-264VAC input @ 47-880Hz
		Various output options for 3U OpenVPX (3.3V, 5V, +/- 12V, 3.3 AUX, + 12V AUX)
	Temperature	Operating temperature: -40° to +85°C
		Storage temperature: -55° to +90°C
	Altitude	Application dependent, consult Pixus for details
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	ISO9001:2015 and AS9100B standards	
Compliance (DTM)	MIL-STD-810, MIL-STD-461, DO-160 (original configuration flight tested)	
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-H0J

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A = Depth
         T = Long (to 275 mm, standard)
         S = Short (to 248 mm) X = Other
 B = Height
         M = Medium (to 178 mm)
                                    T = Tall (to 254 mm)
         S = Short (to 152.4 mm)
C = Backplane
          1 = Reserved
                                     5 = Reserved
          2 = 3U OpenVPX
                                     6 = Reserved
          3 = Reserved
                                     7 = Other
          4 = Reserved
DD = Payload Slots (not including PSUs)
         Example 0n = n slots
                           03 = 3 slots
         01 = 1 slot
         02 = 2 slots
                            09 = 9 \text{ slots}
E = PSU Input
         1 = 8-36 (28V nominal) DC 2 = 48V DC
                                        5 = 3 phase AC (100-125V)
6 = 220-320V DC (270V nominal)
         3 = 85-264V AC
         4 = Custom
F = PSU Output
                         5 = 3U OpenVPX voltages, 12V SOSA (+ 12V, 3.3 AUX, VBAT)
6 = 3U OpenVPX voltages (3.3V, 5V, +/- 12V, 3.3 AUX, + 12V AUX)
         1 = Reserved
         2 = Reserved
         3 = Reserved
                         7 = Other
         4 = Reserved
G = Cooling
         1 = Conduction cooled—no fans (standard)
         2 = Sealed with heat exchange (customized option)
H = Backplane Speed
         0 = Reserved
                                      2 = 8 \text{ GB/s (for PCIe Gen3)}
         1 = 6.25 \, \text{GB/s}
                                      3 = 40GbE or equivalent
         4 = Other
                                      5 = 100GbE or equivalent
 0 = Finish/Coating
         0 (or Blank) = Clear chromate finish (standard)
         1 = Painted (contact Pixus for options)
         2 = Anodized (external only)
J = Conformal Coating
          0 = None
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1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

3 = Other