**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
- Front or rear loaded
- Short or Long depths and Short or Tall heights
- 3U backplanes to 5-slot OpenVPX, CompactPCI, or VME64x.
- 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).*
3-slot, 3U OpenVPX 1/2 ATR, rear loaded example

Specifications:

- 6” High x 4.88mm width x 10.75” long
- 3-slot OpenVPX backplane, BKP3-CEN03-15.2.9 profile is optional
- 1 VITA 62 PSU (400W, 28VDC input standard), various wattage and inputs optional
- Dip-brazed or screwed versions optional
- Weight: approx. 20.5 lbs.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Architecture</th>
<th>Dimensions</th>
<th>Height: 195 mm to 270 mm (configuration dependent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(from aspect of front of card cage)</td>
<td>Width: ~ 125mm for 1/2 ATR</td>
<td>Depth: 248 mm to 498 mm (configuration dependent)</td>
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<tr>
<td>Type</td>
<td>ATR chassis</td>
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<tr>
<td>Standards</td>
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<tr>
<td>ARINC</td>
<td>Type</td>
<td>ARINC 404, 600</td>
</tr>
<tr>
<td>MIL-STD</td>
<td>Type</td>
<td>810F (shock, vibration to 20G), 461F (EMI)</td>
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<tr>
<td>Configuration</td>
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<tr>
<td>Power</td>
<td>Type</td>
<td>28VDC, 48VDC, 90-264VAC input @ 47-880Hz</td>
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<tr>
<td></td>
<td></td>
<td>Various output options (3.3V, 5.5V, +/- 12V)</td>
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<tr>
<td>Environmental</td>
<td>Temperature</td>
<td>Operating temperature: -40° to +85°C</td>
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<tr>
<td></td>
<td></td>
<td>Storage temperature: -55° to +90°C</td>
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<tr>
<td></td>
<td>Altitude</td>
<td>Up to 30,000ft operating</td>
</tr>
<tr>
<td>Conformal Coating</td>
<td></td>
<td>Upon request (See page 6 selection &quot;J&quot; for available options)</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTBF</td>
<td>MIL Handbook 217-F@ TBD Hrs.</td>
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<tr>
<td>Certifications</td>
<td>Designed to meet FCC, CE and UL certifications where applicable</td>
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<tr>
<td>Compliance</td>
<td>RoHS and NEBS</td>
<td></td>
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<tr>
<td>Warranty</td>
<td>Two years</td>
<td></td>
</tr>
<tr>
<td>Trademarks and logos</td>
<td>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.</td>
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</tr>
</tbody>
</table>

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ORDERING OPTIONS

ATR012-ABCDD-EFG-OOJ

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 = 8-36 (28V nominal) DC
   2 = 48V DC
   3 = 85-264V AC
   4 = Custom
   5 = 3 phase AC (100-125V)
   6 = 220-320V DC (270V nominal)

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

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