

## FEATURES

- Top load 1 ATR short, 10 available slots
  - Standard configuration; x9 slots, x1 power supply
  - High-power configuration; x8 slots, x2 power supplies
- Cools up to 100 W per slot power dissipation
- Designed for applications using high power conduction-cooled boards
- Brazed construction
- Liquid-cooled card cage side wall
- Low pressure drop (under 1.5 psid)
- Custom configurations and system integration services available
- VITA 41 VXS or VME 64x backplanes available
- ANSI/VITA 47 Class 3 conduction-cooled
- Meets ARINC 404 A/MIL-STD-91403
- Up to 800 W embedded power
  - 28 VDC input per MIL-STD-704
  - 1 and 3 phase 115 VAC @ 400 Hz available
- Advanced cooling design:
  - Liquid-cooled card cage sidewalls
  - Can accommodate a variety of cooling fluids: PAO, Ethylene Glycol/Water, Propylene Glycol/Water, Fluorinerts FC-75, FC-77, and FC-104

# CHASSIS SOLUTION 78-710

## 1 ATR SHORT LIQUID-COOLED ENCLOSURE



## TECHNOLOGY OVERVIEW

PHYSICAL	
Width	10.12"
Height	7.62"
Depth	12.52"
Weight (Dry)	25 lbs, with x1 power supply installed
Construction	Brazed aluminum liquid-cooled card cage with aluminum skins
ENVIRONMENTAL	
Temperature	<ul style="list-style-type: none"> <li>• Operating: -40 to +70° C                             <ul style="list-style-type: none"> <li>- ANSI/VITA 47, Class C3, MIL-STD-810F, Method 501-502, Procedure II</li> </ul> </li> <li>• Storage: -55 to +105° C                             <ul style="list-style-type: none"> <li>- ANSI/VITA 47, Class C3, MIL-STD-810F, Method 501-502, Procedure I</li> </ul> </li> </ul>
Altitude	-1,500 to +60,000 ft. per ANSI/VITA 47
Temperature Cycling	NSI/VITA 47, Class C3, -50 to +100° C per MIL-STD-202, Method 107
Humidity	95% non-condensing per MIL-STD-810F, Method 507.4
Salt Fog	5% for 48 hours per MIL-STD-810F, Method 509.4, Procedure III
Sand and Dust	<ul style="list-style-type: none"> <li>• Sand: 700 ft/min</li> <li>• Dust: 750ft/min per IL-STD-810F, Method 510.4, Procedures I &amp; II</li> </ul>
Fungal Growth	MIL-STD-810F, Method 508.5
Acceleration	Up to ±9 g per MIL-STD-810F, Method 513.5, Procedures I & II
Shock	40 g, 11 ms per ANSI/VITA 47 Class V3
Vibration	5-2,000 Hz (RMS 12 g) per ANSI/VITA 47 Class V3
Crash Safety	MIL-STD-810F
EMC	EMC to MIL-STD-461E: CE102, CS101, CS114, CS115, CS116, RE102, RS103

## WARRANTY

This product has a one year warranty.

## CONTACT INFORMATION

www.atrenne.com  
sales@atrenne.com  
508.588.6110 or 800.926.8722

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