

1 ATR SHORT LIQUID COOLED CHASSIS



FEATURES

- Conduction cooled ATR for VME, CPCI, VITA 41 (VXS), VITA 46 (VPX) and custom
- Independent dual liquid cooled side walls
- Modular design
- Field-proven high integrity frame construction
- 100 Watts per slot
- In accordance with ARINC 404A
- Can accommodate up to 10 x 6U x 160mm conduction cooled cards
- Up to 1KW input power
- Input Power Mil-Std 704E
- DC 28V / 270V
- 1 and 3 phase 115VAC 400Hz on request
- Custom IO options including Mil-Std wiring and connectors
- Choice of cooling fluids including glycol, kerosene, PAO, salt water, de-ionized water

The liquid cooled ATR chassis can fit up to ten 6U x 160mm slots in a 1 ATR Short size. Designed to ARINC 404A, the chassis accepts conduction cooled modules in various architectures such as VME/64x, cPCI, VXS, VPX, and more. The independent dual liquid-cooled side walls dissipate in excess of 100 Watts per slot. Various cooling fluids can be used including glycol, kerosene, PAO, salt water, etc. With a proven high-integrity frame construction, the unit is highly ruggedized and meets MIL-STD 810E, 461D and 704E.

With a modular design, the ATR can be designed in various configurations. The chassis can easily be scaled up or down while using the same liquid-cooled side walls (ie, the walls for a 1 ATR are the same as the ones for a 1/2 ATR). To reduce costs, the liquid cooling can be optionally limited to one side wall. Various plug-in power supply modules and front I/O configurations are possible in this design. Elma also offers a wide selection of backplanes in various architectures and has different milled card cage sizes off-the-shelf.

The unit is power via 28V DC/270V or optionally 1 and 3-phase 115VAC @400Hz. The liquid-cooled chassis can take up to 1 KW of input power. Custom I/O solutions are optional including MIL-STD wiring and connectors.

SPECIFICATIONS

- Width:**
257.05 mm (10.12") to ARINC 404A
- Height:**
193.5 mm (7.62") to ARINC 404A
- Length:**
318 mm (12.52") to ARINC 404A
- Weight:**
25 lbs. (including backplane)

ENVIRONMENTAL

- Operating Temperature:**
-55°C to +70°C to Mil-Std 810-E
- Storage Temperature:**
-62°C to +95°C to Mil-Std 810-E
- Humidity:**
95% NC for 240 Hours to Mil-Std 810-E
- Shock:**
20g 11ms to Mil-Std 810-E
- Vibration:**
15 to 2000Hz at 0.1g/Hz to Mil-Std 810-E
- EMC:**
Mil-Std 461-D

Order Information

Description	Model Number
1 ATR Liquid Cooled, Tall, Short	ATRCTS10NPNXLTOE4
<ul style="list-style-type: none"> • 7.62" x 10.12" x 12.52" • 10 slot VME64X Backplane • 500W 28VDC input PSU (MIL-STD 704D) • Dual liquid cooled side walls • Designed to ARINC 404A 	