

Elma Electronic Inc.

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Established Computing Solutions for More

Conduction & Convection Cooled COTS Air Transport Racks

Elma's full line of convection cooled ATR (Air Transport Rack) enclosures offers a standardized, cost-effective solution for VME, VME64x, cPCI, VXS, VPX, and MicroTCA based applications. Available in 1/2, 3/4, 1, and 1 1/2 ATR tall long formats per ARINC 404A specifications, the modular design concept allows for wide-ranging customization options without the cost and lead-time penalties associated with traditional construction techniques.

With an environmentally sealed enclosure or in high altitudes, there is often not enough airflow for convection cooling. Conduction cooled ATRs have a machined card cage that accommodates wedge locks to transfer the heat. The Elma conduction cooled ATR has been optimized for cooling via thermal simulation studies. The temperature operating range is -40C to +70C degrees.



FEATURES

- › COTS, convection or conduction cooled 1/2, 3/4, 1, or 1 1/2 ATR per ARINC 404A
- › IEEE 1101.10 compliant
- › Full range of isolated military power supplies from 150 to 750 watts
- › VME, VXS, VPX, cPCI, or custom bus formats
- › Modular design allows for customization with reduced cost and lead time
- › Capacity for 5, 7, 12, or 15 slots of 3U and 6U boards
- › Advanced airflow distribution through card cage (convection)

For more information, contact: sales@elma.com

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