» FS-7277 «

FS-7277 Thermal-Electric ATR Chassis

» Sealed unit to operate in harsh exterior environment

» Front I/O panel customized to user specification

» Allows use of COTS air-cooled boards in environments typically requiring conduction cooled

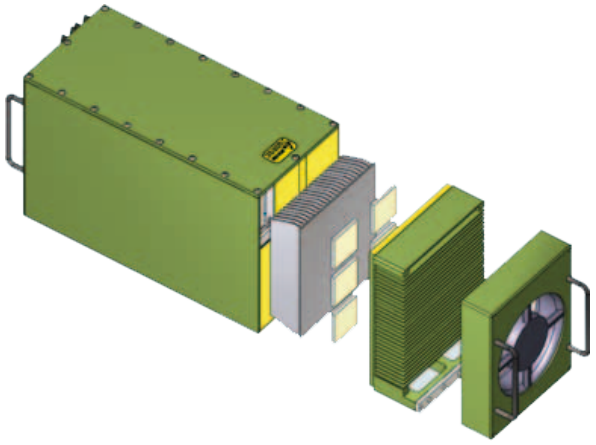
The Kontron Thermal Electric ATR Chassis is a 3/4 long ruggedized enclosure designed for five slots of 6U VME or cPCI boards. The Thermal Electric Cooling chassis is designed for tough sealed environments. Using thermoelectric technology (TEC), this chassis enables the use of convection cooled boards in a sealed environment.

This unit will not only withstand temperature extremes, shock, vibration, humidity and dust, but is also designed to withstand exposure to high-pressure sprays such as those seen by vehicles passing through a tank wash.

The cooling unit consists of a cold plate, a thermo-electric module, multiple heat sinks, and a fan to assist heat rejection. The cold surface faces the inside of the chassis and the hot side is exposed to the external environment. The thermo-electric module carries the heat from the cold plate to the heat sink.

The internal fan drives cold air over the circuit cards and through the card cage as the external fan helps airflow over the external heat sink to assist in the dissipation of heat.

EXPLORED VIEW



The Kontron Thermal Electric ATR Chassis was designed to meet the needs of the military's next generation vehicles.

Technical Information

Physical Dimensions	
Height	11"
Depth	27.1"
Width	7.5"
Weight	55lbs. (typical)
Mechanical	Water tight to MIL-STD-108E Immersion to 3 feet for 1 hour Chem-filmed per MIL-C-5541, Class 3 All fastener hardware is stainless steel Access conforms to MIL-HDBK-45, guideline 36
Electrical	DC input: 28Vdc per MIL-STD-704A DC draw: 12 Amp maximum MIL circular power connector +5, +12, -12V outputs on standard power supply, 300 Watts MIL-STD-461 D or E
Shock & Vibration	MIL-STD-810E MIL-STD-167/1
Backplane	5-slot VME64X, 6U 5-slot cPCI, 6U
Front Panel	Master Power Switch VME Reset Switch LED's include: VME reset, DC power indicators, fan fail and over temp
Standard Options	Thermostatic control of internal temperature
Custom Options	Custom front I/O panel Internal I/O cabling Multiple backplanes Elapsed Time Indicator Connectorization of I/O panels Custom backplane

CORPORATE OFFICES

Europe, Middle East & Africa

Oskar-von-Miller-Str. 1
85386 Eching/Munich
Germany

Tel.: +49 (0)8165/ 77 777
Fax: +49 (0)8165/ 77 279

info@kontron.com

North America

14118 Stowe Drive
Poway, CA 92064-7147
USA

Tel.: +1 888 294 4558
Fax: +1 858 677 0898

info@us.kontron.com

Asia Pacific

17 Building,Block #1,ABP.
188 Southern West 4th Ring Road
Beijing 100070, P.R.China

Tel.: + 86 10 63751188
Fax: + 86 10 83682438

info@kontron.cn