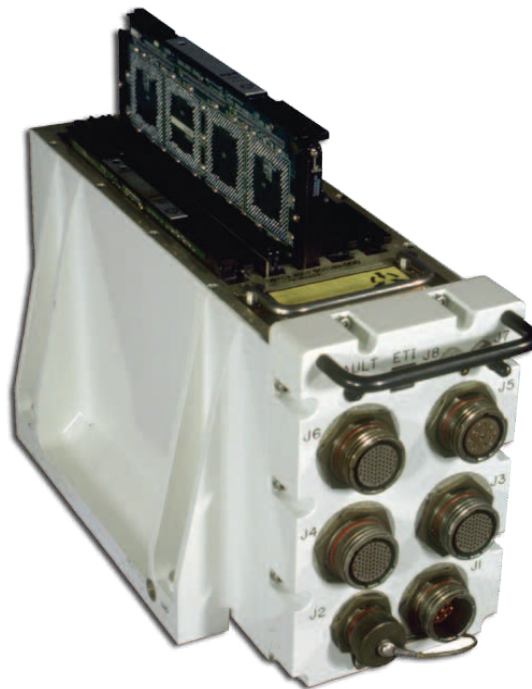


» FS-5977 «



FS-5977 1/2 5-slot ATR Conduction Cooled Chassis

- » Military 1/2 ATR chassis
- » Houses 5 conduction cooled circuit cards per IEEE 1101.2, 0.8" pitch
- » Conduction-cooled via a cold-plate mounting
- » 200 W, 28 VDC input, plug-in power supply

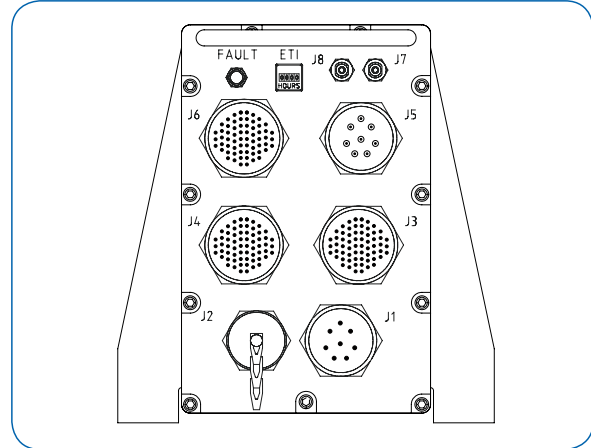
FS-5977 1/2 5-slot ATR

The Kontron FS-5977 is a 5-slot conduction cooled chassis for military applications. It is capable of maintaining a sealed, dry air environment, while subject to typical Vetric immersion and exposure to fluids environments. The FS-5977 meets the environmental requirements of MIL-E-4158, MIL-E-5400, and MIL-STD-2036. This allows for use in environments with extreme temperatures, shock, and EMI requirements where reliability is important.

Mounting & Cooling

The FS-5977 is designed to be hard-mounted to a cold-plate. The base structure of the chassis matches the physical outline limits defined in the ARINC 404A™ specification for a 1/2 ATR, short box. The enclosure side walls are strengthened with gussets, extending beyond the 1/2 ATR dimensions, supporting the hard-mounting cold-plate cooling approach. This eliminates both the conventional shock tray and any required integral air cooling. The FS-5977 provides a secure enclosure for conduction-cooled cards over a wide mounting surface temperature range.

The combined dissipation of PSU losses and 5 cards can be up to 200 W, which must be absorbed by the cold plate. The environmental specifications defined on the reverse indicate the upper temperature limits for a given thermal load.



Technical Information

Physical Dimensions	1/2 -short ATR ARINC 404A™ Specifications
Height	7.840"
Depth	13.750"
Width	4.880"
Weight	22lbs (typical—includes enclosure, backplane and power supply)
Environmental Specs	
Operating Temperature	cold plate temperature: -55°C to 70°C (at 120 W) -55°C to 55°C (at 220 W)
Storage Temperature	-57°C to +85°C
EMC	CE101,CE103, CS102, CS106, RE102, RS103, MIL-STD-461E
Enclosure	MIL-STD-108E, Watertight for 3 feet for 1 hour
Vibration	MIL-STD-810E, Random 0.1g2/Hz, peak 15-2000 HZ
Shock	MIL-STD-810E, 30 g, 11 ms, half sine wave
Input Voltage	22 to 29 VDC MIL-STD-1275A (except input above) MIL-STD-704 A to F
DC Output	+5V 30 A (max) 3.3V 1 A (max) +12V .5 A (max) -12V 10 A (max)
Note	Power supply hold-up time is dependent on input power range and board power consumption. AC power option available. Contact Kontron for information on power supply options.

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