» FS-5968 «

FS-5968 3/4 Short 8-slot ATR Conduction Cooled Chassis

» Cold plate version of a 3/4-short ATR chassis suitable for MIL-STD-5400 Class 1 environments

» Rugged dip brazed aluminum enclosure

» Provides 8-slots for conduction cooled circuit cards per IEEE 1101.2, 0.8" pitch

» Conduction cooled via cold plate mounting

FS-5968 3/4 Short 8-slot ATR

The Kontron FS-5968 is a 3/4-short ATR forced-air conduction cooled chassis designed for use in military applications. Specifically, the FS-5968 chassis meets the environmental requirements of MIL-E-5400 for Class 1 equipment designed to withstand extremes of temperature, vibration, shock, salt spray, sand and chemical exposure while maintaining a sealed environment.

Mounting & Cooling

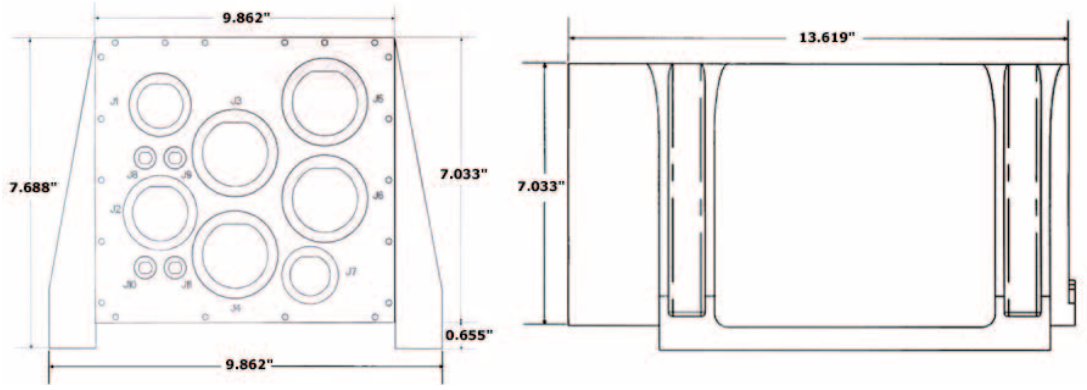
The FS-5965 is designed to be hard-mounted to a cold-plate. The base structure of the chassis matches the physical outline limits defined in the ARINC 404A™ specification for a 3/4-short ATR box. The enclosure side walls are strengthened with gussets, extending beyond the 3/4 ATR dimensions, supporting the hard-mounting cold-plate cooling approach. This eliminates both the conventional shock tray and any required integral air cooling.

The FS-5968 provides a secure enclosure for conduction cooled cards over a wide mounting surface temperature range. With a 50°C cold plate and uniform power dissipation among all card slots, the FS-5968 can dissipate up to 250 Watts.

Technical Information

Physical Dimensions	3/4 -short ATR ARINC 404A™ Specifications
Height	7.690"
Depth	13.620"
Width	7.500" (mounting)
Weight	32lbs (typical—includes enclosure, backplane and power supply)
Environmental	
Storage Temperature	-57°C to +85°C
EMC	CE101, CE102, RE101, CS101, CS114, CS115, CS116, MIL-STD-461E
Enclosure	MIL-STD-108E, Watertight per MIL-STD-108
Vibration	MIL-STD-810E, 0.1g2/Hz, 15-2000 HZ
Shock	MIL-STD-810E, 20 g, 11 ms, half sine wave
Input Power	(choice of AC or DC Input)
28 VDC Power Supply	Primary Input: 28 VDC per MIL-STD-704D
115 VAC	Call factory for details
Front I/O Panel Options	Blank (includes power connector) Configured front panel with connectors for I/O, power, MIL-STD-1553B test and video Custom designed I/O panel
DC Output	+5V 80 A (max) 3.3V 40 A (max) +12V 8.3 A (max) -12V 8.3 A (max)
Note	Power supply hold-up time is dependent on input power range and board power consumption. Contact Kontron for information on power supply options.

Kontron routinely customizes our chassis to meet customer specification, including: outline & mounting, I/O wiring, I/O panels, custom backplanes, environmental considerations & power supplies.



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