

» FS-5985 «



FS-5985 Conduction Cooled Chassis

- » Small form factor based rugged chassis
- » Removable Front I/O and rear panels for chassis access
- » Flexible design allows for easy customized I/O
- » 200 Watt plug-in Power Supply Unit

FS-5985

cPCI Conduction Cooled Chassis

The Kontron FS-5985 is a forced-air, conduction cooled chassis designed for use in military applications. Specifically, the FS-5985 chassis meets the environmental requirements of MIL-E-5400 for Class 1 equipment and will withstand extremes of temperature, vibration, shock, salt spray, sand and chemical exposure while maintaining a sealed environment.

Mounting & Cooling

The FS-5985 chassis is designed to adapt to existing ARINC style equipment mounting trays or it can be configured with a number of application driven mounting options, including hard mounted or shock mounted.

The FS-5985 chassis provides a secure enclosure for conduction cooled circuit cards. The heat from the chassis internal system components is conducted to side-wall heat exchangers, where it is dissipated to the ambient environment by forced-air cooling. The FS-5985 chassis is available with an integral AC or DC fan or with an air-plenum to use with an external force air supply.

Slot Configuration

CompactPCI boards and the PSU are loaded from the rear of the chassis. The FS-5985 supports one system slot, and 4 spare cPCI for I/O and peripherals. A dedicated power supply slot supports a blind mating power supply unit — (included in standard unit).

REAR PANEL VIEW



Technical Information

Physical Dimensions

Height	5.840"
Depth	13.930" (not including handle or connectors)
Width	4.880"
Weight	9.7lbs (typical—includes enclosure, backplane and power supply)

Environmental

Storage Temperature	-57°C to +85°C
Operating	-55°C to +55°C at SL; -55°C to +20°C at 50kFT. (with mil-aero fan)
Vibration	Per MIL-STD-810E, 0.1g2/Hz, 15-2000Hz (without shock tray)
Shock	MIL-STD-810E 20 g, 11 ms, half sine wave (without shock tray)
EMC	Per MIL-STD-461E, CE101, CE103, CS102, CS106, RE102, RS101, RS102, RS103

Electrical

Input	18 to 36 VDC
Input transient protection	Meets or exceeds MIL-STD-704, MIL-STD-1275
Shutdown	Over-voltage shutdown with auto-recovery
Note	50msec power hold-up option available

cPCI Backplane Configuration

5-slots to PICMG 2.0 R3.0
66 MHz operation
Rear I/O through J2
Pluggable PSU slot through Positronic P47 connector
32 bit data width
Configurable 3.3 VI/O or 5 VI/O
cPCI slot keying
Custom backplane available
VPX Backplane Available

Integration Services

Environmental stress screening (ESS) including thermal and vibration cycling.
System configuration: Installation of system I/O wiring, and connectors and peripherals as required.
ATP: Functional testing of configured system using customer or AP Labs developed test procedures.

DC Output

+5V 34A
3.3V 8A
+12V 0.5A
-12V 0.5A
Current limiting
Over temperature protection

Chassis Customization

Can be customized to meet specifications, including: outline and mounting, I/O wiring, I/O panels, custom backplanes, environmental and thermal compliance, and power supplies.

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

