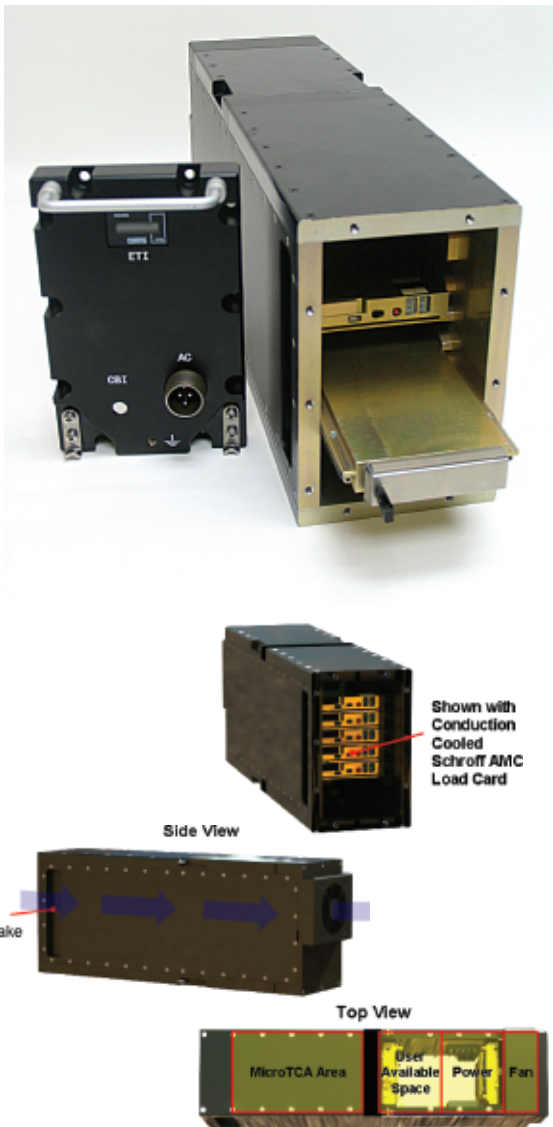


MTCA-CC6 Rugged MicroTCA Chassis



The MTCA-CC6 chassis can accommodate six conduction cooled AdvancedMCs and one conduction cooled MCH. The enclosure utilizes high-grade machined aluminum alloys and protective chemical finishes utilizing the latest technology in design and machining to achieve a tightly toleranced system. Controlled assembly processes provide a complete, highly rugged, cost effective, and environmentally sealed enclosure. To ensure rapid time-to-market deployment and prototyping along with the lowest development costs, the MTCA-CC6 provides for a modifiable front I/O panel to support your unique system configuration. Schroff can optimize a backplane interconnect and customize the power input requirements as needed.

Features

- MicroTCA cold walls and backplane for one MCH slot (Single, Full-Size) and 6x Single, Mid-size AdvancedMC slots. The backplane allows for onboard power management for all AMC slots, MCH and CU
- Forced Air-Cooled with front side intake and rear exhaust via high speed fan
- Integrated AC power supply with wide range input and 375W 12VDC output
- Filtered MIL circular AC input module: 85 VAC - 265 VAC
- Dip Brazed aluminum construction
- Elapsed Time Indicator
- Master Power Switch

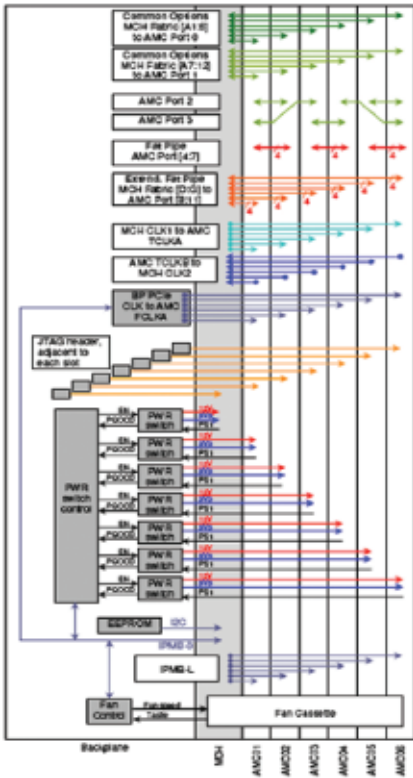
Customization

Schroff will consult with you to meet your requirements and accelerate time-to-market. We can help reduce your design and development costs and deliver product on schedule.

- Front I/O panel
- Paint and Silkscreen
- Internal I/O cabling
- Backplane configurations / modified routing
- Various Power Input Options
- Heater options

For more info:

www.schroff.us



Backplane

The 6 slot MicroTCA backplane has been optimized for superior signal integrity and reduced layer count and provides for:

- 1 x MCH Single, Full-size slot
- 6x AMC Single, Mid-size slots
- 1x CU connector
- 1x Schroff MicroTCA Power Mezzanine Module and 12V Input

Fabric interface includes MCH1 Fabric Port A routed to all AMC slots Port 0 in a radial configuration. Direct connections for AMC Ports 2 and 3 for HDD (SATA) configurations. CH1 Ports [D:G] routed to all AMC slots Port [4:7] in a radial configuration in the Fat Pipe region. The backplane also has clock routing interface, IPMB routing, and EEPROM as specified.

Power

The shelf provides for a front access AC power input and rugged power supply with a wide range 85 VAC - 265 VAC input and 375W 12VDC output. The power input is provided by a circular AC input module and master power on/off switch

There is an integrated MicroTCA compliant power management circuitry that provides the method for the switched 12V payload power distribution branches to the MCH slot, Cooling Unit connector and all the AMC slots.

Cooling

The enclosure provides for front-to-rear airflow to properly cool each conductive AMC clam shell module and MCH for up to 40W per slot.

Environmental

Temperature:	
Normal operating	-40°C...+70°C
Low Temperature Storage	-55°C
High Temperature Storage	+105°C
Humidity:	+95%, no condensation
EMI Conducted and Radiated:	EN 55022/CISPR22, Class A
Safety:	CSA 22.2, No. 60950-1-03, First Edition
Shock:	40 g 11 millisecond half-sine; 3-axis
Vibration:	5 Hz to 100 Hz PSD increasing at 3dB/octave 100 Hz to 1000 Hz PSD = 0.1 g _r /Hz 1000 Hz to 2000 Hz PSD decreasing at 6 dB/octave

Physical Dimensions

Height:	7.735"
Width:	4.88"
Depth:	27"

For more info:

www.schroff.us

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