

MTCA-12S-RF2

9U 19" 12 Slot MicroTCA.4 compliant Chassis



The MTCA-12S-RF2 MicroTCA[®] chassis is a 9U 19" rack offering up to 12 AdvancedMC[™] slots, all are MTCA.4 compliant slots with μ RTMs. The MTCA-12S-RF2 system is the perfect base for complex and highly integrated computer platforms in high energy physics applications. It supports high-end computing applications as well as I/O intensive configurations. Based on the MicroTCA[®] and AdvancedMC[™] PICMG[®] standards it is the optimal solution for long life cycle applications.

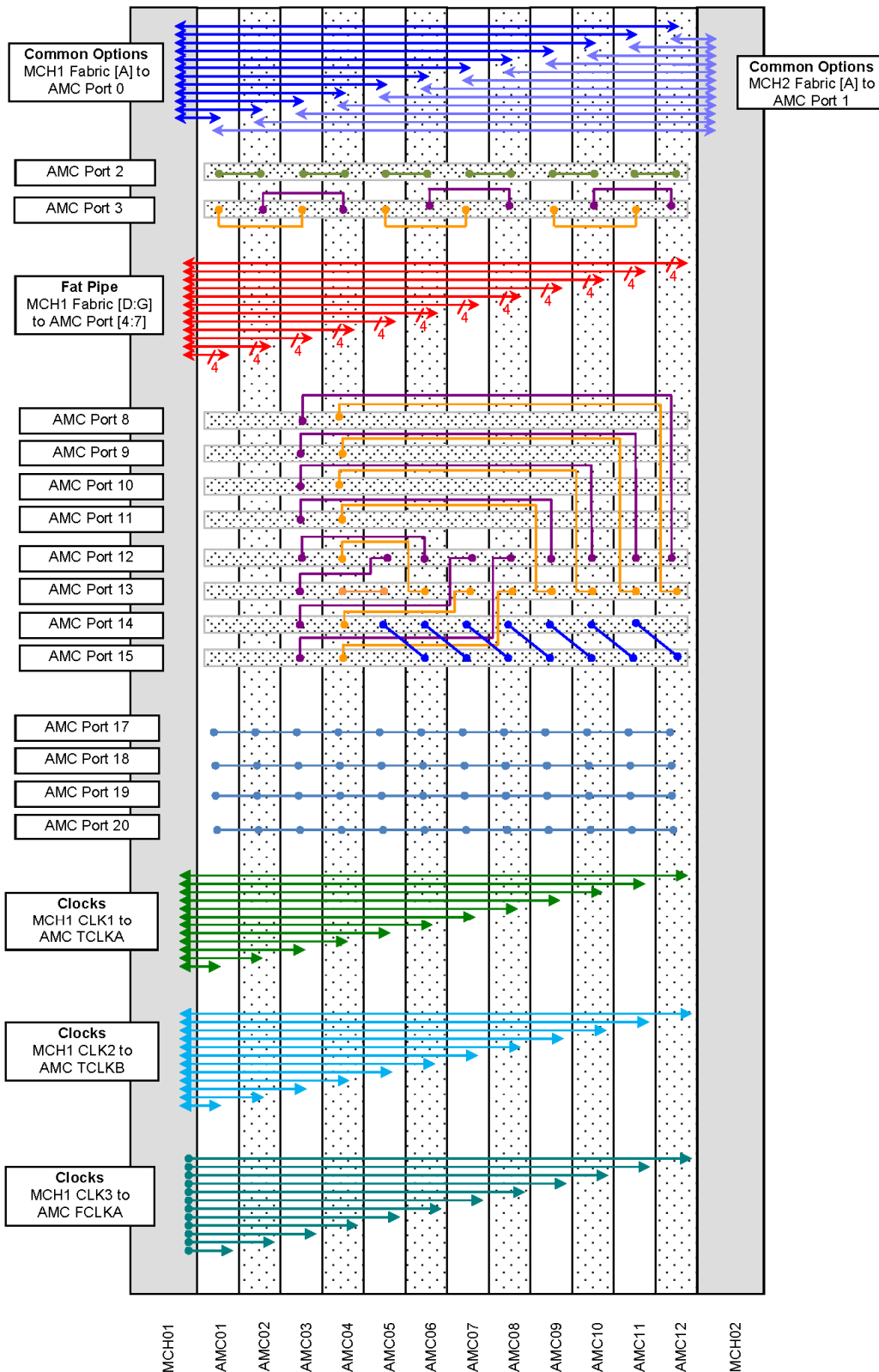
Mechanics

The chassis is made from galvanized steel, the inner rails are made from V2a steel. The chassis offers two field replaceable cooling unit.

Features

- 19" rack-mount chassis, 9U height
- 12 AdvancedMC double mid-size slots, 12 double mid-size RTM slots
- 2 MCH slot double full-size with double full-size RTM slots
- 4 PM slots double full-size
- MTCA.4 R1.0, AMC.0, AMC.1, AMC.2, AMC.3 compliant
- Full hot-swap support
- Size: 482,6 x 397,25 x 373,3 (mm)
- Four 600W or 1.000W AC power supply (DC optional)
- Front-to-top rear air flow
- Licensed under HVF-0016

Backplane Diagram



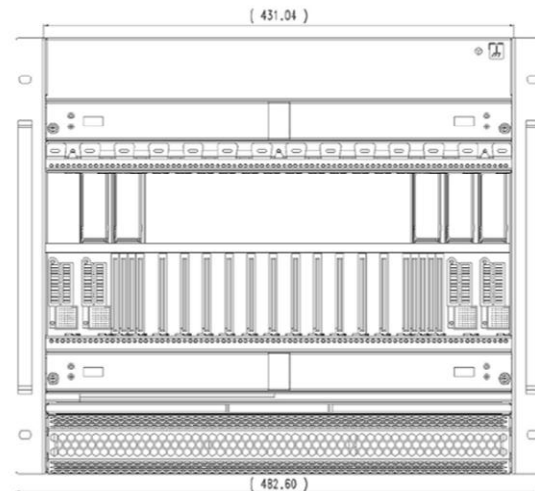
Cooling concept and Air-flow

The shelf offers two hot-swappable Cooling Units (CU) in push-pull configuration; each providing 6 speed controlled 12 VDC fans, a display module, including a cooling Unit Enhanced Module Management Controller (CU EMMC). Each CU has a front accessible air filter for easy exchange and servicing.

Specifications

Construction	19" rack-mount, 9U height, steel sub rack, galvanized
Shelf Manager	MTCA compliant MCH modules, double full size
Cooling	2 hot-swap fan cartridge with 6 fans each (front to rear) air flow, supports up to 80W power dissipation in each slot (50W+30W), dust filter compliant to UL 94HF-1
Power Supply	up to 4 MTCA compliant power module slots, Power module, AC or DC input, double full-size or 2x12HP, 16x 12VDC PP, 16x 3,3VDC MP
Weight	20.0 kg without filler panels
Oper. Temp.	-5°C ... +50°C
Storage Temp.	-25°C ... +85°C
Humidity	+5% to 85% non-condensing
Dimensions	19" x 9U x 373,3 mm (WxHxD) 482,6 x 397,25 x 373,3 (mm)
Compliance	MicroTCA PIGMG MTCA.0 R1.0, MTCA.4 R1.0, AdvancedMC PIGMG AMC.0 R2.0, AdvancedMC PIGMG AMC.1 R1.0

Front Views



Ordering Information

MTCA-12S-RF2	9U 19" MTCA.4 chassis, 12 AMC, 12 μ RTM Slots, two MCH Slot, cooling from front to rear, no LLRF backplane (must be ordered separately)
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Starter Kits

MTCA-12P-PH2	9U 19" MTCA.4 Starter Kit consisting of: NAT-MCH-PHYS, MCH AM 902/411-42, AMC CPU, 8GB NAT-PM-AC1000, 1.000W PM Linux installation on 256GB SSD all unused slots are closed with filler modules, fully integrated and tested
MTCA-12P-PH3	9U 19" MTCA.4 Starter Kit consisting of: NAT-MCH-PHYS, MCH AM 902/411-43, AMC CPU, 16GB PS-1000W-M.4-AC, Wiener PM Linux installation on 256GB SSD all unused slots are closed with filler modules, fully integrated and tested