

MicroTCA with RTM



SCHROFF

FOR HIGH PERFORMANCE APPLICATIONS



**Open Modular
Computing Specifications**

- Front slots conform to SCHROFF MicroTCA specification PICMG MTCA.0 R1.0
2 x MCH slots Single/Double Full-size
12 x AMC slots Single/Double Mid-size
4 x PM slots Single/Double Full-size
- Rear slots according to PICMG MTCA.4
12 x RTM slots Double Mid-size
- Two redundant hot-swap fan trays with EMMC for AMC and μ RTM cooling in push-pull configuration.
- Air Flow: bottom front air intake, top rear air exhaust
- Chassis dimensions: Width: 19" rack mount
Height: 9 U
Depth: 373.30 mm

Intended use of the chassis

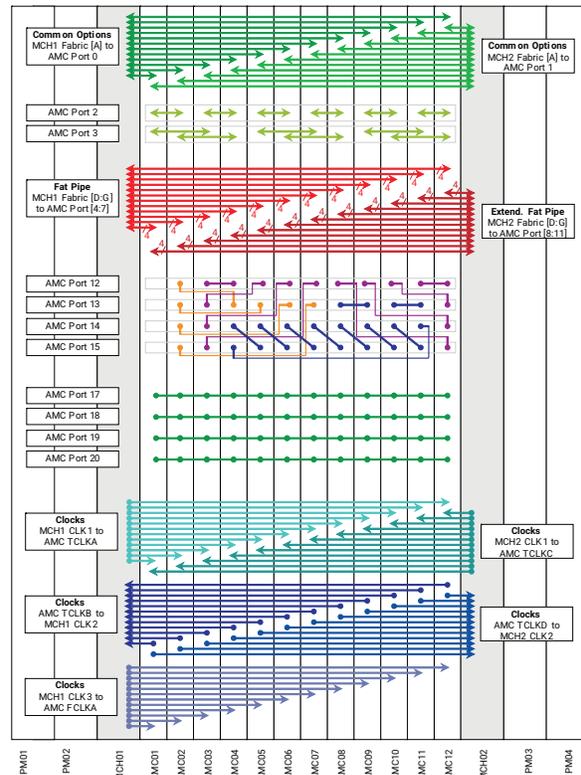
The chassis is designed for high performance applications where redundancy of all chassis modules is required. The two push-pull fan trays are removable from the front of the chassis. Cable trays at the front and rear of the chassis facilitate management of cables. The chassis accepts up to four MTCA.0 compliant power modules.

RF-Backplane

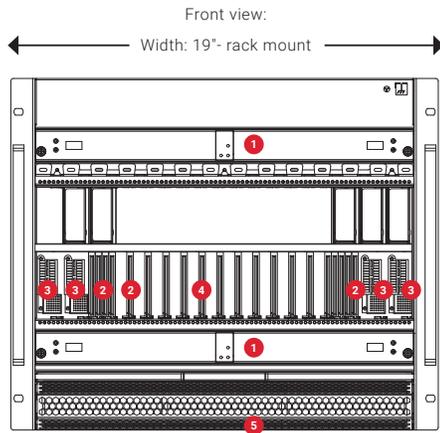
A RF-Backplane is an optional capability extension for MTCA.4. It enables the synchronization of the μ RTM modules and delivers a high-performance and managed analog power supply for μ RTMs. The nVent SCHROFF MTCA.4 system is prepared to accept a RF-Backplane.

Backplane topology

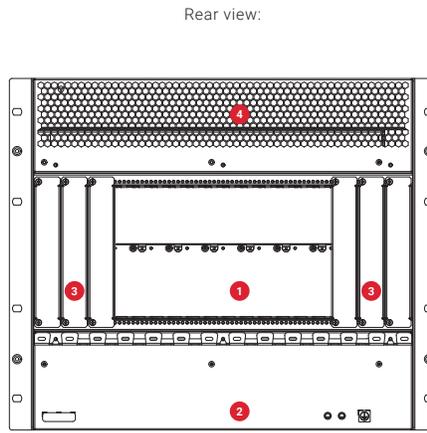
The backplane includes special bused connections for triggers, clocks, and interlocks. It also includes point-to-point SAS/SATA and fabric connections between AMCs.



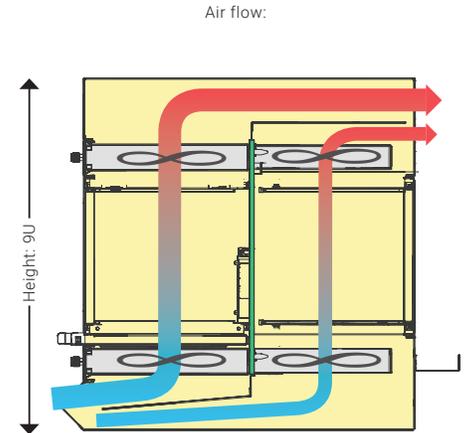
Chassis Components



- 1 – Push-Pull fan trays
- 2 – MCH slots
- 3 – Power Module slots
- 4 – 12 Double / Mid-size AMC slots
- 5 – Air intake



- 1 – MicroTCA Backplane for 12 Double / Mid-size µRTM
- 2 – Cable tray
- 3 – Slot covers
- 4 – Air exhaust



The air intake is at the front bottom side of the chassis, the air exhaust is the rear upper side. Air baffles separate the air flow for the front card section and the rear card section in order to maximize cooling capability.

POWER DISTRIBUTION

The chassis accepts up to four MTCA.0 compliant Power Modules which are plugged in from the front side of the chassis. There are two adjacent Power Module slots at the left side and two adjacent Power Module slots at the right side of the chassis allowing various Power Module combinations; though not all Power Module sizes are available on the market today:

- 4 x Single, Full-size (6HP)
- 2 x Single, Double Full-size (12 HP)
- Double, Full-size (6HP)
- 2 x Double, Double Full-size (12 HP)

Part number

The order number is **11850-026**.

Delivery comprises: subrack, backplane, two removable fan trays, air filter.

FOR FURTHER INFORMATION VISIT: nVent.com/SCHROFF

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