



# NATIVE-C2

## 2U 19" rack-mounted MTCA Chassis



### Overview

The NATIVE-C2 is a 2U MicroTCA chassis which offers system designers the most performance per U in a fully redundant configuration. Twelve AdvancedMC (AMC) slots give users the flexibility to configure for a wide range of enterprise, industrial control, telecom, wireless, and other applications. NATIVE-C2's unique card guide design eases the insertion/removal of AMC cards. The replaceable, redundant fabric backplane improves the serviceability of the system. NATIVE-C2 equips with higher performance cooling unit – over 160 CFM of airflow through the chassis – for better thermal profile.

### Key features

- Horizontal-mounted twelve (12) slots 2U 19" rack-mounted enclosure
- optional 390W or 780W DC managed power supply
- Supporting full-, mid-, or compact-size AMCs
- Supporting up to two (2) MicroTCA Carrier Hubs (MCH)
- Two (2) redundant hot swappable managed cooling units
- Removable air filters
- choice of various backplane topologies

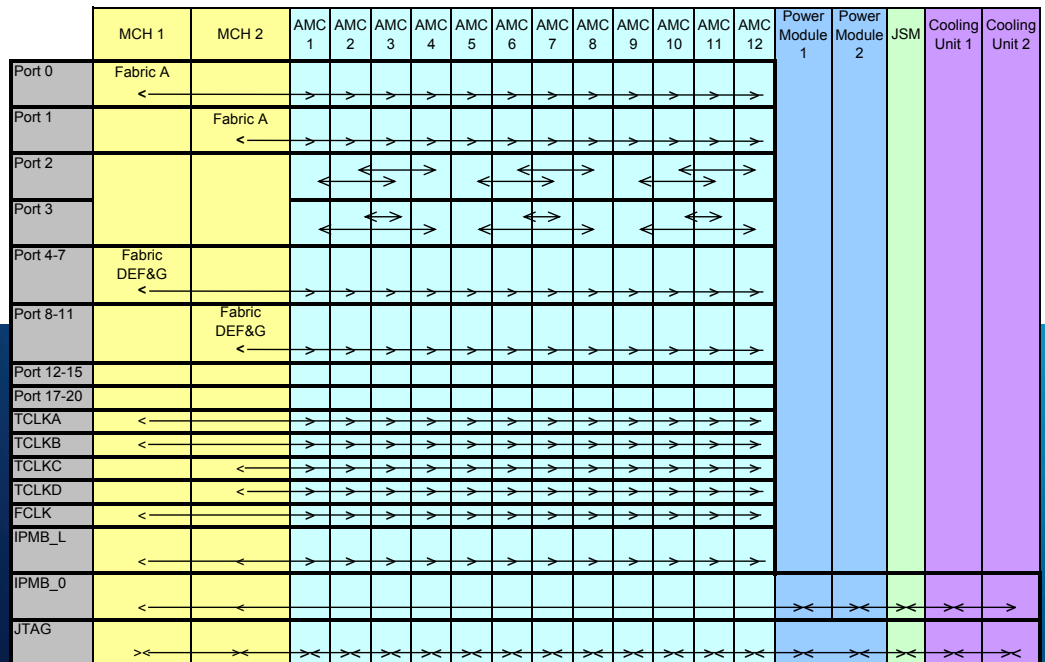


# Technical Data

## NATIVE-C2



### NATIVE-C2 Backplane Topology



### Overview

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### Sample Configuration



### Key Features

#### Chassis Dimensions

- 2U 19-inch EIA rack mount
- Up to 12 AMC slots
- 2 MCH slot
- 2 Power module (PM) slots
- 1 2HP JTAG switch module (JSM) slot
- 2 hot swappable cooling units
- Maximum 80W per AMC/MCH slot
- Removable air filter
- Card rail design for ease of insertion/removal AMC cards

#### Backplane

- Redundant backplane fabric
- 1 GbE routed to AMC Port 0 and 1
- Point-to-point SATA/SAS Port 2 and 3
- Fat-Pipe to MCH 1 at Ports 4-7

- Fat-Pipe to MCH 2 at Ports 8-11
- TCLKA, TCLKB, and FCLKA to each AMC
- JTAG Connector
- FRU EEPROM
- IPMI
- custom backplanes on request

#### Cooling Units

- 8 fans per CU with each fan rated at 160 CFM
- Individual-controlled fan speed
- Straight through side-to-side cooling
- Fully managed, redundant, and hot swappable
- Monitored fan power for early failure detection
- Air filter removed detection

#### Optional Components:

- **Power Module:** NAT-PM-DC840 or NAT-PM-AC600 or any other MTCA compliant power module
- **MTCA Carrier Hub:** NAT-MCH or any MTCA compliant carrier hub

#### Environmental/Regulatory/Compliance

- Standard oper. temp.: +5 C to +40 C
- Storage temperature: -45 C to 85 C
- Shock and vibration: Level DL1, IEC 61587-1
- FCC Part 15, Class A
- EN 55022, EN 55024
- EIA and RoHS Compliant
- PICMG MicroTCA.0 R1.0