

# MTCA.4 System for 12 Double Full-Size AMC Modules



The system is designed for high-performance, high availability applications. The hot-swap fan modules with EMMC in pull configuration ensure that the front and rear slots are properly cooled. The fan speed is adjustable via the MCH. The separate JSM installation space prevents an AMC slot from being occupied by a JTAG module. The system can take up to four power modules to ensure a sufficient power supply for demanding applications. The backplane features clock and trigger lines.

## CERTIFICATIONS



## FEATURES

In accordance with MTCA.4 R1.0 specification

84 HP system for 12 double Full-Size AdvancedMC modules, 2 Single Full-Size MCHs, and 4 / 2 Single Full-Size power modules

6 rear transition module slots for Double Full-Size RTMs

1 Single Full-Size slot for a JTAG switch module (JSM)

Backplane with dual-star topology

Optional fan speeds for front and rear sections can be separately adjusted via the MCH

2 hot-swap fan modules with cooling unit manager (CU EMMC)

Air filter accessible from the front

## SPECIFICATIONS

Table 1/3

| Catalog Number | Product Type | Number of Slots | Type | Backplane Type | Data Transfer | Power per Slot |
|----------------|--------------|-----------------|------|----------------|---------------|----------------|
|----------------|--------------|-----------------|------|----------------|---------------|----------------|

|           |        |    |                |                                |                   |     |
|-----------|--------|----|----------------|--------------------------------|-------------------|-----|
| 11890-170 | System | 12 | 19" Rack Mount | MTCA.4 Dual Star Topology, JSM | 40 GbE, PCIe Gen3 | 80W |
| 11890-156 | System | 12 | 19" Rack Mount | CMS Dual Star Topology, JSM    | 40 GbE, PCIe Gen3 | 80W |
| 11890-152 | System | 12 | 19" Rack Mount | MTCA.4 Dual Star Topology, JSM | 40 GbE, PCIe Gen3 | 80W |
| 11890-119 | System | 12 | 19" Rack Mount | CMS Dual Star Topology, JSM    | 40 GbE, PCIe Gen3 | 80W |

Table 2/3

| Catalog Number | Airflow Direction | Rack Height | Power Supply Type           | Power Supply Included | Rear I/O | Complies With     |
|----------------|-------------------|-------------|-----------------------------|-----------------------|----------|-------------------|
| 11890-170      | Front to Rear     | 9U          | 2 x (4) Single Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11890-156      | Front to Rear     | 9U          | 2 x (4) Single Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11890-152      | Bottom to Top     | 7U          | 2 x (4) Single Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11890-119      | Bottom to Top     | 7U          | 2 x (4) Single Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |

Table 3/3

| Catalog Number | Depth | Package Quantity |
|----------------|-------|------------------|
| 11890-170      | 373mm | 1                |
| 11890-156      | 373mm | 1                |
| 11890-152      | 373mm | 1                |
| 11890-119      | 373mm | 1                |

## ADDITIONAL PRODUCT DETAILS

2 Power Supplies are required to operate the system.

Modified systems available on request.

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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