

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



The system is designed for high-performance applications with a high level of availability, where redundancy of all components is required. The two redundant hot-swap fan modules with EMMC in push-pull configuration ensure that the front and rear slots are properly cooled. The fan speed is controlled independently for front and rear and is set via the MCH. Cable trays on the front and rear of the enclosure simplify cable management. The system can take up to four power modules to ensure a sufficient power supply for the application. The backplane features clock and trigger lines per PICMG MTCA.4, as well as interlocks. It also provides direct connections for SAS/SATA and lines between the AMCs

## CERTIFICATIONS



## FEATURES

In accordance with PICMG MTCA.4 R1.0 specification

9 U, 84 HP system for 12 Double Mid-Size AdvancedMC modules, 2 Double Full-Size MCHs, and 4 Double Full-Size power modules

12 rear transition module slots for Double Mid-Size RTMs

Backplane with dual star topology, direct connections for S-ATA / SAS, clock and trigger lines per PICMG MTCA.4

Telecom and fabric clock topology per PICMG AMC.0 R2.0

2 hot-swap fan modules with cooling unit manager (CU EMMC), airflow from bottom front to top rear

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

## SPECIFICATIONS

Table 1/3

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

|           |        |    |                |  |                   |     |
|-----------|--------|----|----------------|--|-------------------|-----|
| 11850-031 | System | 12 | 19" Rack Mount | Data Aggregation Topology, JSM, White Rabbit | 40 GbE, PCIe Gen3 | 80W |
| 11850-030 | System | 12 | 19" Rack Mount | Data Aggregation Topology, JSM               | 40 GbE, PCIe Gen3 | 80W |
| 11850-028 | System | 12 | 19" Rack Mount | MTCA.4 Dual Star Topology, JSM               | 40 GbE, PCIe Gen3 | 80W |
| 11850-027 | System | 12 | 19" Rack Mount | MTCA.4 Dual Star Topology, JSM, White Rabbit | 40 GbE, PCIe Gen3 | 80W |
| 11850-026 | System | 12 | 19" Rack Mount | MTCA.4 Dual Star Topology                    | 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     |
|----------------|-------------------|-------------|-------------------------|-----------------------|----------|-------------------|
| 11850-031      | Front to Rear     | 9U          | (4) Double Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11850-030      | Front to Rear     | 9U          | (4) Double Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11850-028      | Front to Rear     | 9U          | (4) Double Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11850-027      | Front to Rear     | 9U          | (4) Double Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |
| 11850-026      | Front to Rear     | 9U          | (4) Double Full-size PM | No                    | Yes      | PICMG MTCA.4 R1.0 |

Table 3/3

| Catalog Number | Depth   | Height   | Package Quantity | Certifications |
|----------------|---------|----------|------------------|----------------|
| 11850-031      | 373.3mm | 400.05mm | 1                |                |
| 11850-030      | 373.3mm | 400.05mm | 1                |                |
| 11850-028      | 373.3mm | 400.05mm | 1                |                |
| 11850-027      | 373.3mm | 400.05mm | 1                | RoHS, PICMG    |
| 11850-026      | 373.3mm | 400.05mm | 1                | RoHS, PICMG    |

## ADDITIONAL PRODUCT DETAILS

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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