

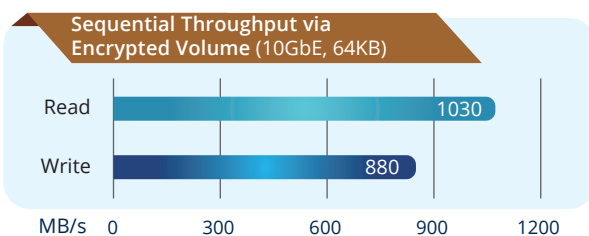
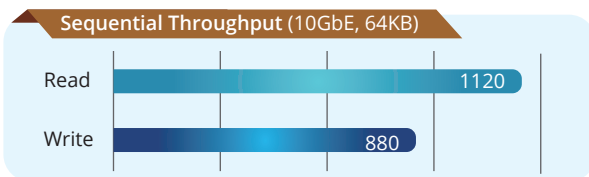
GRAND-MF



Powered by a high-performance AMD R-Series quad-core processor with up to 64GB DDR4 RAM, the GRAND-MF provides two M.2 SATA 6Gb/s SSD slots that allows the greatest flexibility in tiered storage configuration and enables cache acceleration. This powerful hardware can also double the encrypted file transfer performance with AES-NI encryption acceleration. The GRAND-MF is designed for small and medium-sized businesses looking for private cloud, cross-platform file sharing and collaboration, efficient backup/restoration, storage for virtualization, and to future-proof their IT infrastructure with maximized ROI.



- » IAMD R Series RX-421ND quad-core 2.1 GHz CPU (Turbo Core up to 3.4 GHz)
- » 4 x DIMM Slots, up to 64 GB memory with 4 x 16GB DIMMs
- » Ready to support 10GbE network card
- » Storage expandable, up to 1PB

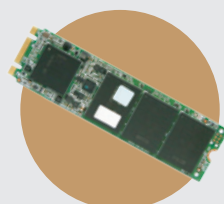


AMD R-Series quad-core CPU, up to 64GB RAM, and AES-NI encryption acceleration

The GRAND-MF is equipped with a next-gen AMD R-Series RX-421ND quad-core 2.1 GHz processor (burst up to 3.4 GHz), dual channel 8GB/16GB/64GB DDR4 RAM (upgradable to 64GB), and four Gigabit LAN ports for lightning-fast multi-tasking with low power consumption and the ability to deliver up to 1531 MB/s throughput with a 10GbE configuration. The GRAND-MF's accelerated encryption engine with AES-NI provides unmatched encryption performance in its class (up to 1315 MB/s with AES 256-bit full storage server volume encryption) to boost system performance, security, and ensure the safety of sensitive business data stored in the storage server.

M.2 SSD support

The GRAND-MF supports 2.5" SSD for caching to increase IOPS performance, and provides higher transfer speeds and reliability with support for two additional M.2 2280/2260SATA 6Gb/s SSDs. Using an SSD cache boosts overall system performance, and is perfect for improving the overall workflow of random IOPS demanding applications such as virtualization. The GRAND-MF combines M.2 SATA SSD, 2.5" SATA SSD and high-capacity 3.5" HDD in one box to effectively realize tiered storage for exceptional application performance and lower TCO of storage at the same time.



M.2



SSD



HDD



Specifications

| Model | GRAND-MF-16C-RP | GRAND-MF-16C | GRAND-MF-12B-RP | GRAND-MF-12B | GRAND-MF-08B-RP | GRAND-MF-08B |
|---|---|-----------------------------------|--|---|--|-----------------------------------|
| CPU | AMD R-Series RX-421ND quad-core 2.1 GHz processor, turbo core up to 3.4 GHz | | | | | |
| Encryption Acceleration | AES-NI | | | | | |
| Memory | Maximum 64GB (4 x 16GB) 4 x UDIMM DDR4, up to 2400MHz (For dual- or quad-DIMM configurations, you must use a pair of identical DDR4 modules.) | | | | | |
| Drive Types | 16 x 3.5"/2.5" SATA 6Gb/s HDDs/SSDs | | 12 x 3.5"/2.5" SATA 6Gb/s HDDs/SSDs | | 8 x 3.5"/2.5" SATA 6Gb/s HDDs/SSDs | |
| M.2 SSD Slots | 2 x M.2 2280/2260 SATA 6Gb/s SSDs | | | | | |
| Gigabit LAN Port | 4 x Gigabit RJ45 LAN ports | | | | | |
| PCIe Slot | 1 x PCIe Gen 3 x4 | | | | | |
| USB Ports | 2 x USB 3.0 port, 4 x USB 2.0 port | | | | | |
| LED Indicator | Status/Power, LAN, USB, Drive 1 - 16 | | Status/Power, LAN, USB, Drive 1 - 12 | | Status/Power, LAN, USB, Drive 1 - 8 | |
| Button | Power/Status, Reset | | | | | |
| Maintenance Port | 1 x 3.5 mm console port | | | | | |
| Form Factor | 3U Rackmount | | | 2U Rackmount | | |
| Dimension (H x W X D) | 130 x 481 x 536 mm 5.12 x 18.94 x 21.10 inch | | | 89 x 482 x 534 mm 3.5 x 18.98 x 21.02 inch | | |
| Net Weight | 15.42 kg (34 lbs.) | 14.25 kg (31.42 lbs.) | 11.81 kg (26.04 lbs.) | 10.71 kg (23.62 lbs.) | 10.96 kg (24.16 lbs.) | 9.86 kg (21.74 lbs.) |
| Operating Temperature & Relative Humidity | 0 to 40°C (32 to 104°F), 5 ~ 95% RH non-condensing, wet bulb: 27°C | | | | | |
| Power Supply | 500W (x2), 100-240V AC, 50/60 Hz | 350W, 100-240V AC, 50/60 Hz | 300W (x2), 100-240V AC, 50/60 Hz | 350W, 100-240V AC, 50/60 Hz | 250W (x2), 100-240V AC, 50/60 Hz | 250W, 100-240V AC, 50/60 Hz |
| Fan | 4 x 92 mm, 12V DC | | | 2 x 70 mm, 12V DC | | |

Options

| Item | Order P/N | Description |
|--------------|---------------------|--|
| Network card | LAN-10G2SF-MLX | Dual-port 10GbE SFP+ network expansion card |
| Network card | LAN-10G2T-X550 | Dual-port 10GbE 10GBASE-T network expansion card |
| Network card | LAN-1G2T-I210 | Dual-port Gigabit network expansion card |
| USB card | USB-U31A2P01 | USB 3.1 Gen 2 10Gbps Type-A dual-port PCIe card |
| M.2 SSD | SSD-M2080-256GB-A01 | SSD module |
| Heatsink | HS-M2SSD-01 | Heatsink for M.2 SSD module, 14 x 14mm |
| SAS Card | SAS-12G2E | Dual port storage expansion, SAS 12Gbps |
| Rail kit | RAIL-A03-57 | A03 series (Chassis) slide, Maximum load 57 kg |
| Cable | CAB-SAS10M-8644 | MiniSAS Cable (SFF-8644 to SFF-8644), 1.0m |
| | CAB-SAS05M-8644 | MiniSAS Cable (SFF-8644 to SFF-8644), 0.5m |

Ordering Information *Pre-install Memory by Request

| Part No. | Description |
|---------------------|--|
| GRAND-MF-08B-R10 | 2U 8Bay front 3.5" HDD or SSD support, rackmount storage server system (Barebone) with AMD RX-421ND, 250W single PSU, RoHS |
| GRAND-MF-08B-RP-R10 | 2U 8Bay front 3.5" HDD or SSD support, rackmount storage server system (Barebone) with AMD RX-421ND, 250W redundant PSU, RoHS |
| GRAND-MF-12B-R10 | 2U 12Bay front 3.5" HDD or SSD support, rackmount storage server system (Barebone) with AMD RX-421ND, 350W single PSU, RoHS |
| GRAND-MF-12B-RP-R10 | 2U 12Bay front 3.5" HDD or SSD support, rackmount storage server system (Barebone) with AMD RX-421ND, 350W redundant PSU, RoHS |
| GRAND-MF-16C-R10 | 3U 16Bay front 3.5" HDD or SSD support, rackmount storage server system (Barebone) with AMD RX-421ND, 350W single PSU, RoHS |
| GRAND-MF-16C-RP-R10 | 3U 16Bay front 3.5" HDD or SSD support, rackmount storage server system (Barebone) with AMD RX-421ND, 500W redundant PSU, RoHS |

Packing List

| | |
|---|---------------------------------|
| Ethernet Cable x 2 | Flat head screws (for 2.5" HDD) |
| Power cord x 2 (non RP model only one power cord) | Flat head screws (for 3.5" HDD) |

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С нами вы становитесь еще успешнее!

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