

MegaDC A+ Server ASG-1014S-ACR12N4H

1U UP internal-mounted storage server with 12 hot-swap 3.5" SAS/SATA + 4 7mm 2.5" U.2 NVMe and PCIe 4.0



More details here

Key Applications

Database Applications, Hyperscale Data Center, Object Storage, Big Data Analytics, Scale-Out Density, Hadoop & Ceph storage solutions, Scale-out NAS,

Key Features

- Single AMD EPYC™ 7003/7002 Series Processor (7003 Series Processor drop-in support requires BIOS version 2.0 or newer);
- 16 DIMMs; Up to 4TB 3DS ECC Registered DDR4-3200MHz RDIMM/LRDIMM;
- 2 PCIe 4.0 x16 (FHHL) Slots, 1 PCIe 4.0 x16 (LP) Slot;
- 2x 10GBase-T LAN ports via Broadcom BCM57416 Controller;
- 12x 3.5" SAS3/SATA3 Hot-Swap Drive Bays, 4x 2.5" 7mm U.2 NVMe Hot-Swap Drive Bays;
- 800W Redundant Power Supplies Platinum Level High-efficiency (Full redundancy based on configuration and application load.);
- RAID support via Broadcom® 3916;
- 1 VGA, 1 COM, 4 USB3.0 (4 Rear, 1 Type A), 2 USB2.0 (2 Front);



Form Factor

1U Rackmount
Enclosure: (17.6" x 1.7" x 37")
Package: (27" x 12" x 53.15")

Processor

Single Socket SP3
AMD EPYC™ 7003/7002 Series Processor

System Memory

Slot Count: 16 DIMM slots/8 Channels
Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM

Drive Bays Configuration

Default: Total 16 bays

- 12 internal hot-swap 3.5" SAS/SATA drive bays
- 4 front hot-swap 7mm PCIe 4.0 x2 NVMe drive bays

M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 22110(default)/2280)

Expansion Slots

PCI-Express (PCIe) Configuration: Default

- 1 PCIe 4.0 x16 (in x16) HHHL slot
- 2 PCIe 4.0 x16 (in x16) FHHL slots

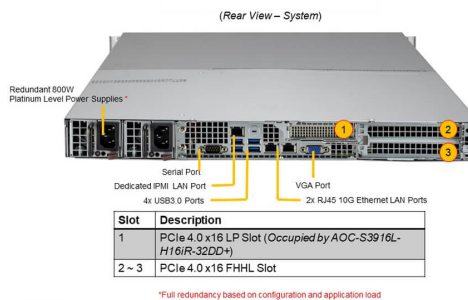
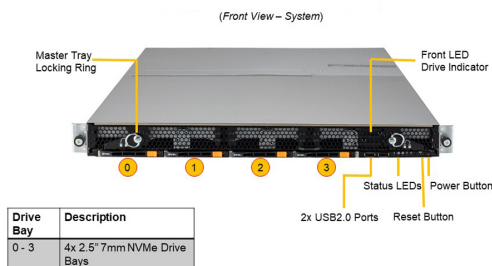
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On-Board Devices

SAS: SAS (12Gbps) via Broadcom® 3916; RAID 0/1/5/6/10/50/60 support
NVMe: NVMe; (Native)
Network Connectivity: 2 RJ45 10GBASE-T with Broadcom® BCM57416

Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
2 RJ45 10 GBASE-T LAN ports (Broadcom® BCM57416)
USB: 2 USB 2.0 Type-A ports(front)
4 USB 3.0 Type-A ports(Rear)
Video: 1 VGA port(Rear)
Serial: 1 COM port(Rear)
DOM: 2 SuperDOM (Disk on Module) ports with built-in power
TPM: 1 TPM header



System Cooling

Fans: Up to 6 Heavy Duty 4cm Fan(s)
Air Shroud: 1 Air Shroud

Power Supply

2x 800W Redundant (1 + 1) Platinum Level (94%) power supplies

System BIOS

BIOS Type: AMI 256MB SPI Flash EEPROM

Management

SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!

PC Health Monitoring

CPU: 4+1 Phase-switching voltage regulator
Monitors for CPU Cores, Chipset Voltages, Memory
Fan: Fans with tachometer monitoring
Pulse Width Modulated (PWM) fan connectors
Status monitor for speed control
Temperature: Monitoring for CPU and chassis environment
Thermal Control for fan connectors

Dimensions and Weight

Weight: Gross Weight: 58 lbs (26.3 kg)
Net Weight: 39.5 lbs (17.9 kg)
Available Color: Black

Operating Environment

RoHS Compliant
Operating Temperature: 10°C to 35°C (50°F to 95°F)
Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity: 8% to 90% (Non-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Motherboard

[Super H12SSW-NTR](#)

Chassis

CSE-802TS-R804WBP