# 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,



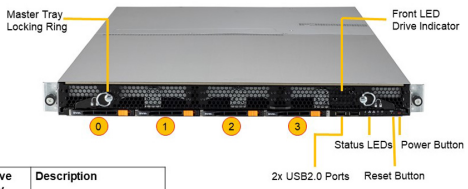
## Key Features

- 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 SuppliesPlatinum Level High-efficiency(Full redundancy based onconfiguration 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<br>Enclosure: (17.6" x 1.7" x 37")<br>Package: (27" x 12" x 53.15") |
| Processor | Single Socket SP3<br>AMD EPYC™ 7003/7002 Series Processor |
| System Memory | Slot Count: 16 DIMM slots/8 Channels<br>Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM |
| Drive Bays Configuration | Default: Total 16 bays<br>• 12 internal hot-swap 3.5" SAS/SATA drive bays<br>• 4 front hot-swap 7mm PCIe 4.0 x2 NVMe drive bays<br>M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 22110(default)/2280) |
| Expansion Slots | PCI-Express (PCIe) Configuration: Default<br>• 1 PCIe 4.0 x16 (in x16) HHHL slot<br>• 2 PCIe 4.0 x16 (in x16) FHHL slots<br>M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 22110(default)/2280) |
| On-Board Devices | SAS: SAS (12Gbps) via Broadcom® 3916; RAID 0/1/5/6/10/50/60 support<br>NVMe: NVMe; (Native)<br>Network Connectivity: 2 RJ45 10GBASE-T with Broadcom® BCM57416 |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>2 RJ45 10 GBASE-T LAN ports (Broadcom® BCM57416)<br>USB: 2 USB 2.0 Type-A ports (front)<br>4 USB 3.0 Type-A ports (Rear)<br>Video: 1 VGA port (Rear)<br>Serial: 1 COM port (Rear)<br>DOM: 2 SuperDOM (Disk on Module) portswith built-in power<br>TPM: 1 TPM header |

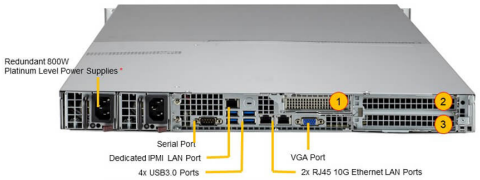
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(Front View – System)




| Drive Bay | Description |
|---|---|
| 0 - 3 | 4x 2.5" 7mm NVMe Drive Bays |

(Rear View – System)




| Slot | Description |
|---|---|
| 1 | PCIe 4.0 x16 LP Slot (*Occupied by AOC-S3916L-H16iR-32DD+*) |
| 2 ~ 3 | PCIe 4.0 x16 FHHL Slot |

*Full redundancy based on configuration and application load

| | |
|---|---|
| System Cooling | Fans: Up to 6 Heavy Duty 4cm Fan(s)<br>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<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>Fan: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 58 lbs (26.3 kg)<br>Net Weight: 39.5 lbs (17.9 kg)<br>Available Color: Black |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing) |
| Motherboard | **A+ Motherboard® H12SSW-NTR** |
| Chassis | **CSE-802TS-R804WBP** |

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