

CloudDC A+ Server AS -1115CS-TNR

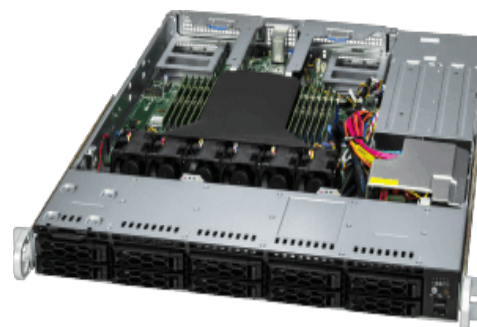

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Key Applications

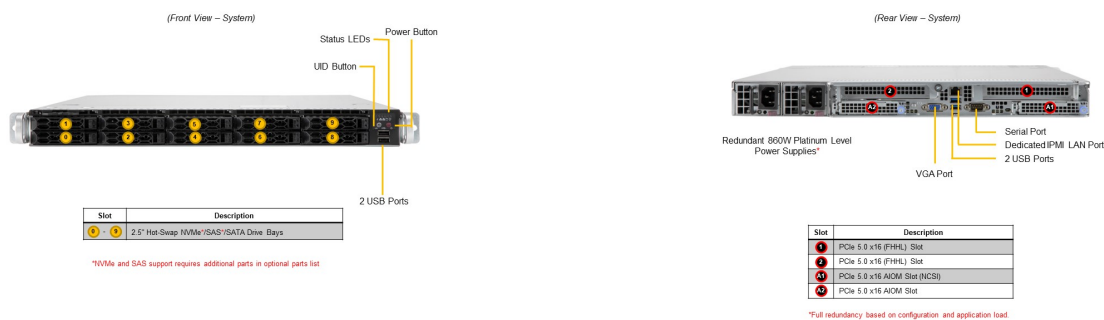
Web Server, Firewall Application, Data Center Optimized, Value IaaS, Cloud Computing, Compact Server, DNS & Gateway Servers, Firewall Application, CDN, Edge Nodes,

Key Features

- Single 4th Generation AMD EPYC™ 9004 Series Processors;
- 12 DIMM slots up to 3TB 3DS ECC RDIMM DDR5-4800MHz ;
- 2 PCIe 5.0 x16 FHHL;
- Dual AIOM with NCSI (OCP 3.0) for networking, 1 dedicated IPMI LAN;
- 10x 2.5" hot-swap hybrid NVMe/SATA/SAS drive bays;
- 860W redundant Platinum level 100-240Vac and 200-240 Vdc power supplies;(*Full redundancy based on configuration and application load);
- 2 On-board PCIe 3.0 x2 M.2 NVMe 80mm/110mm (Boot);



Form Factor	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 605 x 197 x 822mm (23.8" x 7.8" x 32.4")
Processor	Single Socket SP5 AMD EPYC™ 9004 Series Processors Up to 128C/256T
GPU	Max GPU Count: Up to 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: A2,L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM
Drive Bays	10x 2.5" hot-swap NVMe/SATA/SAS drive bays (10x 2.5" NVMe hybrid)(10x 2.5" SATA by default) 2x NVMe (PCIe Gen 3x2, Boot drive only) M-Key, 2280/22110
Expansion Slots	2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s)
On-Board Devices	Chipset: System on Chip Network Connectivity: Via Slim-AIOM IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 Dedicated IPMI LAN port USB: 2 USB 3.0 port(s) (2 rear) 2 USB 2.0 port(s) (2 front) Video: 1 VGA port(s) TPM: TPM header Serial Port: 1 COM Port(s) (1 rear)



System Cooling	Fans: 6x 4cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud(s)
Power Supply	860W Redundant Platinum Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM BIOS Features: USB Keyboard support
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
PC Health Monitoring	FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors Voltage: System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support
Dimensions and Weight	Height: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 23.5" (597 mm) Gross Weight: 46 lbs (20.9 kg) Net Weight: 25 lbs (11.3 kg) Packaging: 7.8" (H) x 23.8" (W) x 32.4" (D) Available Color: Black front & silver body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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 H13SSW
Chassis	CSE-LB16TS-R860AWP-A

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis				
Part Number	MBD-H135SW	CSE-LB16TS-R860AWP-A		
Qty	1	1		
Description	Super H135SW Motherboard		1U Chassis	
Backplane				
Part Number	BPN-NVME5-LB16A-S10			
Qty	1			
Description	1U 10-port backplane, 10x SAS3/SATA3/NVME5 for X13 CloudDC			
Cable				
Part Number	CBL-MCIO-1227EQS4	CBL-MCIO-124354Y	CBL-CDAT-0680-55	CBL-PWCD-0160-IS
Qty	1	1	1	2
Description	MCI0 X8/STR+Tab to SlimSAS X4/STR+Tab,27CM,32AWG,RoHS	(MCI0 x8 to 2 SlimSAS x4), STR, 43cm, 850hm, RoHS,RoHS	NCSI,2x10F to 2x10F,IDC,PH2.54,55cm,shield,28AWG,RoHS	PWCD,US,NEMAS-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Fan				
Part Number	FAN-0163L4			
Qty	6			
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan			
Front Panel				
Part Number	MCP-280-00033-0N	FPB-FP116		
Qty	1	1		
Description	Universal Thermal sensor kit with 80cm I2C cable	Front control board for SC116 (USB 2.0 x 2)		
Air Shroud				
Part Number	MCP-310-LB005-0B	MCP-310-LB006-0B		
Qty	1	1 set		
Description	Mylar Air Shroud for AMD 1U CloudDC with H135SW	Air block (L+R) set for LB16-AW-A 1U CloudDC with H135SW		
Manual				
Part Number	MNL-2579-QRG			
Qty	1			
Description	AS -1115CS-TNR Quick Reference Guide			
Riser Card				
Part Number	RSC-D-6G5	RSC-DR-6G5		
Qty	1	1		
Description	1U LHS DCO Riser card with one PIC-E 5.0 X16 slot,HF,RoH	1U RHS DCO Riser card with one PCIe 5.0 X16 slot,HF,Ro		
Software				
Part Number	SFT-OOB-LIC			
Qty	1			
Description	License key for enabling OOB BIOS management			
Heatsink / Retention				
Part Number	SNK-P0082P			
Qty	1			
Description	1U Passive CPU Heat Sink for AMD Socket SP5 Processors			
*Power Supply				
Part Number	PWS-860P-1R2	MCP-250-00009-0N		
Qty	2	1		
Description	1U 860W, Redundant power supply, 54.5mm width, Platinum with	SC113 Redundant Power Distributor Cover		
*Power Distributor				
Part Number	PDB-PT116-SL8824			
Qty	1			
Description	Based on PDB-PT116-L8824 to optimize 24Pin etc cable lengths			
*Parts				
Part Number	MCP-160-00028-0B			
Qty	1			
Description	Mylar Cable Channel for Cloud-DC, X12 DDW			
*Drive Tray(s)				
Part Number	MCP-220-00188-0B			
Qty	10			
Description	Black gen-5.5 tool-less cost-effective 2.5			
*Rear Window				
Part Number	MCP-240-00173-0N			
Qty	1			
Description	1U X12 AWIO Rear window for LA15,LB16,LB13 Redundant PWS			
*Rail Set				
Part Number	MCP-290-00016-0N	MCP-290-00063-0N		
Qty	1	1set		
Description	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH		
*Fan Holder				
Part Number	MCP-320-00027-0B	MCP-320-00028-0B	MCP-340-00035-0B	
Qty	24	1	2	
Description	Plastic pin for 40x28, 40x56 fan	Fan holder for 6pcs 40x56 fan, assemble-able for SC819/SC119/SC818/SC116	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)	

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

10 NVMe Optional Cables				
Part Number	CBL-MCIO-1228M5RE	CBL-MCIO-1218M5RE-J		
Qty	1	4		
Description	MCI0 x8 (STR to RE), 28cm, 30#, Gen5, 850hm	MCI0 x8 (STR to RE), 18cm, G5,32AWG		
3908/3916 CacheVault				
Part Number	BTR-CVPM05			
Qty	1			
Description	CacheVault for Broadcom 3908/3916 (requires a SuperCap mount)			
3908/3916 SuperCap Mount				
Part Number	MCP-240-00203-0N	MCP-240-00127-0N	MCP-240-21747-0N	
Qty	1	1	1	
Description	SuperCap mounting bracket for PCIe location	SuperCap mounting tray for 2.5" drive location	SuperCap mounting card for AIOM location	
Cable Management Arm				
Part Number	MCP-290-00152-0N			
Qty	1			
Description	1U Supermicro Cable Management Arm 2nd Gen			
Global Services & Support				
Part Number	OSNBD3/2/1 /(support/Global_Services.cfm)	QS4HR3/2/1 /(support/Global_Services.cfm)		
Qty	-			
Description	3/2/1-year onsite NBD service		3/2/1-year onsite 24x7x4 service	
M.2 by AOC				
Part Number	AOC-SLG4-2H8M2			
Qty	1			
Description	2x Hybrid Gen 4 NVMe/SATA M.2 RAID 0/1 Carrier, Standard LP			
Software				
Part Number	SFT-DCMS-Single			
Qty	1			
Description	DataCenter Management Package (per node license)			

Storage Control Card and Cable(s)

Part Number	AOC-S3808L-L8iT OR	AOC-S3908L-H8iR(-16DD/-32DD)	1x CBL-SAST-1276F-100	OR
Qty	-			
Description	8 int 12Gb/s SAS3 ports, x8 Gen4, HBA - LP, 122 HDD	8 int 12Gb/s ports, x8 Gen4, ROC - LP, 240 HDD	Slimline x8 (LE) to 2x Slimline x4 (STR),FFC,76/76CM	

TPM security module

Part Number	AOM-TPM-9670V
Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller; vertical form factor

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