

SuperServer 1019D-14CN-RAN13TP+



Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |



Key Applications

- Multi-Access Edge Computing (MEC)
- Centralized/Cloud Radio Access Network (C-RAN)
- Universal Customer Premise Equipment (uCPE)
- Software Defined WAN (SD-WAN)
- Network Function Virtualization (NFV)
- Artificial Intelligence (AI)

Key Features

1. Intel® Xeon® D-2177NT Processor, 14-Core, 28 Threads, 1.9 GHz, 105W
2. Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2400Mz; in 4 DIMM slots
3. 2 PCI-E 3.0 x16 (FHFL) slots
4. 2 Internal 2.5" SSD bays
5. M.2: 1 M-Key, 2280/22110; 1 E-Key, 2230; 1 B-Key, 2242/3042
6. 9 GbE (1 port for management), 4x 10G SFP+, and 1 Dedicated IPMI LAN
7. 2 USB 3.0, 1 VGA, 1 COM via RJ45
8. 800W Redundant Power Supplies **Platinum Level (94%+)**

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Tested M.2 List](#) [Drive Options](#) [Manuals](#) [Quick-References Guide](#) [OS Certification Matrix](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications ^

Product SKUs

SYS-1019D-14CN-RAN13TP+ SuperServer 1019D-14CN-RAN13TP+ (Black)

Motherboard

[Super X11SDW-14CN-TP13F+](#)

Processor

CPU Intel® Xeon® processor D-2177NT
Single Socket FCBGA-2518 supported, CPU TDP supports Up to 105W TDP

Cores / Cache 14 Cores, 28 Threads

System Memory

Memory Capacity Up to 512GB DDR4 ECC LRDIMM
Up to 256GB DDR4 ECC RDIMM
4 DIMM slots

Memory Type 2666/2400/2133MHz ECC DDR4 L/RDIMM
Operating speed up to 2400MHz

DIMM Sizes 128GB, 64GB, 32GB, 16GB

Memory Voltage 1.2 V

On-Board Devices

Chipset System on Chip (SoC)

SATA SATA3 (6Gbps) ports via SoC controller

Network Controllers Quad 10G SFP+ via SoC
8x 1GbE with Intel® I350-AM4
Single 1GbE with Intel® I210

IPMI ASPEED AST2500
Support for Intelligent Platform Management Interface v.2.0

Video VGA via Aspeed AST2500 BMC

Input / Output

SATA 2 SATA3 (6Gbps) ports

LAN 9 RJ45 Gigabit Ethernet LAN ports
4 10G SFP+ LAN ports
1 RJ45 Dedicated IPMI LAN port

USB 2 USB 3.0 ports (front)

Video 1 VGA port

Serial Port / Header 1 COM via RJ45

TPM 1 TPM Header & Chip both

System BIOS

BIOS Type UEFI 256Mb

Management

Software Intel® Node Manager
[IPMI 2.0](#)
NMI
[SUM](#)
Watch Dog
[SuperDoctor® 5](#)

Chassis

Form Factor 1U Rackmount

Model CSE-515M-R804

Dimensions and Weight

Height 1.7" (43mm)

Width 17.2" (437mm)

Depth 15.7" (399mm)

Package 8" (H) x 27" (W) x 24" (D)

Weight Gross Weight: 28 lbs (12.7 kg)
Net Weight: 18 lbs (8.16 kg)

Available Colors Black

Front Panel

Buttons Power On/Off button
System Reset button

LEDs Power LED
Hard drive activity LED
Network activity LEDs
System Information LED

Expansion Slots

PCI-Express 2 PCI-E 3.0 x16 (FHFL) slots

M.2 1 M.2 M-Key: 2280/22110
1 M.2 B-Key: 2242/3042
1 M.2 E-Key: 2230

Drive Bays

Internal 2 Internal 2.5" drive bays

System Cooling

Fans 5x 40x56mm Hot-swap Counter-rotation PWM Fans

Power Supply

800W AC power supply w/ PFC

AC Voltage 100-240 V, 50-60 Hz

+5V N/A

+5V standby Max.: 4 Amp
Min.: 0 Amp

+12V Max: 62.5A & Min: 0.5A (100Vac-127Vac)
Max: 66.6A & Min: 0.5A (200Vac-240Vac)
Max: 66.6A & Min: 0.5A (230-240Vdc)

-12V N/A

+3.3V N/A

Certification **Platinum Level Certified**
[\[Test Report \]](#)

Operating Environment / Compliance

RoHS RoHS Compliant

Environmental Spec. Operating Temperature: 0°C to 45°C (32°F to 113°F)
Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List ^

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDW-14CN-TP13F+	1	Super X11SDW-14CN-TP13F+ Motherboard
	CSE-515M-R804	1	1U Chassis
Cable 1	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
Cable 2	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
FAN	FAN-0207L4	2	40x40x56 mm, 13K-11K RPM, Counter-rotating, Hot-swappable Fan for SC515M Chassis
Parts	MCP-260-00153-0B	1	1U I/O Shield for X11SDW-14CN-TP13F+ with EMI Gasket, Black
Air Shroud	MCP-310-51504-0B	1	Mylar Air Shroud for SC515M + X11 SDW
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
* Power Supply	PWS-804P-1R	2	1U 800W 100-240VAC/50-60Hz, and DC240V input
* Power Distributor	PDB-PT515M-2424	1	1U support redundancy up to 800W for SC515M chassis with ATX

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

	Part Number	Qty	Description
Rack Bracket	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N
Air Shroud	MCP-310-51505-0B	1	Mylar Air Shroud for SC515M + T4 GPU
Air Shroud	MCP-310-51506-0B	1	Mylar Air Shroud for SC515M, FHFL AOC optimized

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