

SuperServer 1019D-4C-RAN13TP+



Integrated Board



Super X11SDW-4C-TP13F+

Views: | [Angled View](#) | [Top View](#) |
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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-2123IT Processor, 4-Core, 8 Threads, 2.2 GHz, 60W
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%+)**

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

Product SKUs

- SYS-1019D-4C-RAN13TP+**
 - SuperServer 1019D-4C-RAN13TP+ (Black)

Motherboard

- Super X11SDW-4C-TP13F+**

Processor

- CPU**
 - Intel® Xeon® processor D-2123IT
 - Single Socket FCBGA-2518 supported, CPU TDP supports Up to 60W TDP
- Cores / Cache**
 - 4 Cores, 8 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-sw ap 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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDW-4C-TP13F+	1	Super X11SDW-4C-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+ w/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 PCIe 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