

# SuperServer 1019D-16C-RDN13TP+

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



## 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-2183IT Processor, 16-Core, 32 Threads, 2.2 GHz, 100W
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. 600W -48V DC input Redundant Power Supplies

## Specifications ^

### Product SKUs

**SYS-1019D-16C-RDN13TP+** SuperServer 1019D-16C-RDN13TP+ (**Black**)

### Motherboard

[Super X11SDW-16C-TP13F+](#)

### Processor

**CPU** Intel® Xeon® processor D-2183IT  
Single Socket FCBGA-2518 supported, CPU TDP supports Up to 100W TDP

**Cores / Cache** 16 Cores, 32 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-R601

### 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

### 600W -48V DC input Redundant Power Supplies

**Total Output Power** 600W: -44Vdc to -65Vdc

**Dimension (W x H x L)** 54.5 x 40 x 220 mm

**DC Input** -44Vdc to -65Vdc / 18 - 10A

**+12V** Max: 50A / Min: 0A

**+5V sb** Max: 3A / Min: 0A

**Output Type** Gold Finger Connector Mating with Molex 45984-4343

**DC option for: (AC Counter- part)** PWS-406P-1R, PWS-407P-1R, PWS-606P-1R, PWS-608P-1R, PWS-804P-1R

### 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
<b>Motherboard / Chassis</b>	MBD-X11SDW-16C-TP13F+	1	Super X11SDW-16C-TP13F+ Motherboard
	CSE-515M-R601	1	1U Chassis
<b>Cable 1</b>	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
<b>Cable 2</b>	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
<b>FAN</b>	FAN-0207L4	2	40x40x56 mm, 13K-11K RPM, Counter-rotating, Hot-swappable Fan for SC515M Chassis
<b>Parts</b>	MCP-260-00153-0B	1	1U I/O Shield for X11SDW-14CN-TP13F+ with EMI Gasket, Black
<b>Air Shroud</b>	MCP-310-51504-0B	1	Mylar Air Shroud for SC515M + X11 SDW
<b>Riser Card</b>	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
<b>* Power Supply</b>	PWS-601D-1R	2	-48V DC input, 12V and 5Vsb 600W output for 1U redundancy
<b>* Power Distributor</b>	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
<b>Rack Bracket</b>	MCP-290-00016-0N	-	1U open rack bracket set for CSE-PT51L, MCP-290-00054-0N
<b>Air Shroud</b>	MCP-310-51505-0B	1	Mylar Air Shroud for SC515M + T4 GPU
<b>Air Shroud</b>	MCP-310-51506-0B	1	Mylar Air Shroud for SC515M, FHFL AOC optimized

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