

SuperServer 1019D-14CN-FHN13TP



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

- Intel® Xeon® D-2177NT Processor, 14-Core, 28 Threads, 1.9 GHz, 105W
- Up to 512GB ECC LRDIMM, up to 256GB reg. ECC RDIMM DDR4-2666Mz; in 4 DIMM slots
- 2 PCI-E 3.0 x16 (FHFL) slots
- 2 Hot-swap 2.5" drive bays, 2 Internal 2.5" SSD bays
- 1 M-Key, 2280/22110, 1 E-Key, 2230, 1 B-Key, 3042
- 9 GbE (1 port is used for management), 2x 10GbE, 2x 10G SFP+, and 1 Dedicated IPMI LAN ports
- 2 USB 3.0, 1 VGA, 1 COM via RJ45
- 500W Multi-output Platinum Level Power Supply

Drivers & Utilities BIOS IPMI Tested Memory Tested M.2 List Drive Options Manuals Quick-References Guide
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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-FHN13TP	SuperServer 1019D-14CN-FHN13TP (Black)
Motherboard	
Super X11SDW-14CNT-TP13F	
Processor	
CPU	Intel® Xeon® processor D-2177NT, CPU TDP support 105W
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 2666MHz
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	Dual 10G SFP+ via SoC Dual 10GBase-T via Intel X557 8x 1GbE with Intel I350-AM4 Single 1GbE with Intel I210
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	VGA via Aspeed AST2500 BMC
Input / Output	
SATA	4 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
LAN	9 RJ45 Gigabit Ethernet LAN ports 2 RJ45 10GbE LAN ports 2 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
System BIOS	
BIOS Type	128Mb SPI Flash with AMI BIOS
Management	
Software	Intel® Node Manager IPMI 2.0 NMI SUM Watch Dog SuperDoctor® 5

Chassis	
Form Factor	1U Rackmount
Model	CSE-513BTS-505WB
Dimensions and Weight	
Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	15" (381mm)
Package	6.9" (H) x 19.5" (W) x 22.4" (D)
Weight	Gross Weight: 25 lbs (11.34 kg) Net Weight: 14 lbs (6.35 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 E-Key , 2230 1 M.2 B-Key , 3042
Drive Bays	
Hot-swap	2 Hot-swap 2.5" drive bays
Internal	2 Internal 2.5" SSD bays (optional)
System Cooling	
Fans	4x 40x28mm PWM fans (up to 6)
Power Supply	
500W High-Efficiency Power Supply w/PMBus 1.2, I ² C, and PFC	
AC Input	100-240V, 50-60Hz, 6.6A max
DC Output	+3.3V: 12A +5V: 15A +5V standby: 3A +12V: 41A -12V: 0.2A
Certification	Platinum Certified
Operating Environment / Compliance	
RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C to 40°C (50°F to 104°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-14CNT-TP13F	1	Super X11SDW-14CNT-TP13F Motherboard
	CSE-513BTS-505WB	1	1U Chassis
Backplane	BPN-SAS3-826TQ-B2B	1	2-port 2U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0473L	2	SATA,INT,ROUND,ST-ST,21CM,30AWG
Cable 2	CBL-CDAT-0662	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
Cable 3	CBL-CDAT-0850	1	CBL,VGA,DB15/F,w/Bracket TO 2X8F/P2.54,50CM,28/30AWG,RoHS
FAN 1	FAN-0154L4	2	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
Parts	MCP-260-00144-0B	1	1U I/O Shield for X11SDW with EMI Gasket, Black
Air Shroud	MCP-310-51303-0B	1	Mylar Air shroud for SC513B + UP MB X11SDW
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
* Power Supply	PWS-505P-1H	1	1U 500W Multi-output, Platinum level w/ PMbus 24pin, W100xL180xH40mm,RoHS/REACH
* Cable 4	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
* Cable 5	CBL-0335L	1	CBL,FRONT CNTL,20 TO 20 PIN,RA,RND TUBE,73CM,28AWG
* FAN 2	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
* Drive Tray(s)	MCP-220-00180-0B	2	2.5" New ID gen 3 hot-swap HDD tray with lock feature (with plastic bracket)
* Parts	MCP-260-00078-0B	1	1U I/O shield for X11 Server MB with 5X5mm vent hole and EMI Gasket, Black
* Front Panel	MCP-280-80901-0N	1	SC809 FRONT CONTROL PANEL ASSY
* Rail Set	MCP-290-00102-0N	1 set	Outer rail, quick-release type, 25.6" to 33.05"
* Rail Set	MCP-290-00108-0B	1 set	Inner rail, front, short (quick) for 1U 17.2
* Fan Holder	MCP-320-00060-0N	1	Fan tray for six 40x28 fans in SC813M (for X11DPL-i 12"x10.15")
* Parts	MCP-340-00001-01	2	Dummy fan 40x28mm

- Notes:
- Parts with * are inside the chassis
 - 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
HDD Bracket	MCP-220-00137-0N	-	Dual 2.5 HDD bracket (bracket base follow std 2.5" HDD screw holes)
Cable	CBL-0082L	-	Y SPLIT SATA POWER ADAPTER, PB FREE
Cable	CBL-0473L	-	21CM 30AWG SATA CBL, S-S

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