

SuperServer 1019P-FHN2T



Key Applications

- Multi-Access Edge Computing (MEC)
- Centralized/Cloud Radio Access Network (C-RAN)
- Universal Customer Premise Equipment (uCPE)
- Advanced Network Security
- Network Function Virtualization (NFV)
- Artificial Intelligence (AI) on Edge, Machine Learning (ML)
- Retail, Smart Medical Expert Systems

Key Features

1. Single Socket P (LGA 3647) supports 2nd Gen Intel® Xeon® Scalable processor[†]
2. 6 DIMMs; up to 1.5TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM
3. 2 PCI-E 3.0 x16 (FHFL) slots
4. 2 Hot-swap 2.5" SATA3 drive bays; 2 Internal 2.5" SATA3 drive bays (opt.)
5. 2x 10GBase-T ports with Intel X722 + X557
6. 1 VGA, 1 COM, 2 USB 3.0, 2 USB 2.0
7. M.2: 1 M-Key 2280/22110 PCI-E 3.0 x4 and SATA
8. 500W Platinum Level power supplies

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

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

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

Specifications

Product SKUs	
SYS-1019P-FHN2T	SuperServer 1019P-FHN2T (Black)
Motherboard	
Super X11SPW-TF	
Processor/Cache	
CPU	Single Socket P (LGA 3647) 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake-SP) [†] Support CPU TDP 70-205W
Cores	Up to 28 Cores
Note	[†] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R). Operating Temperature: 0°C ~ 35°C (32°F ~ 95°F) for Cascade Lake-R CPUs above 165W TDP, please contact Supermicro Technical Support for additional information.
System Memory	
Memory Capacity	6 DIMM slots Up to 1.5TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM
Memory Type	2933/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
On-Board Devices	
Chipset	Intel® C622 chipset
SATA	Intel® C622 controller; RAID 0, 1, 5, 10
Network Controllers	Dual 10GBase-T LAN with Intel® X722 + X557
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	ASPEED AST2500 BMC
Input / Output	
SATA	4 SATA3 (6Gbps) ports
LAN	2 RJ45 10GBase-T LAN ports 1 RJ45 dedicated IPMI LAN port
USB	2 USB 3.0 ports (front) 2 USB 2.0 ports (front)
Video	1 VGA port
Serial Port	1 COM port (front)
SuperDOM	2 SuperDOM (Disk on Module) ports with built-in power
System BIOS	
BIOS Type	AMI 32Mb SPI Flash ROM
Management	
Software	Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SPM , SUM SuperDoctor® 5 Watch Dog
Power Configurations	ACPI Power Management Power-on mode for AC power recovery

Chassis	
Form Factor	1U Rackmount
Model	CSE-513BTS-505WBP
Dimensions and Weight	
Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	15" (381mm)
Package	19.5" (W) x 6.9" (H) x 22.4" (D)
Weight	Gross Weight: 26 lbs (11.79 kg) Net Weight: 15 lbs (6.8 kg)
Available Colors	Black
Front Panel	
Buttons	Power On/Off button UID
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
Drive Bays	
Hot-swap	2 Hot-swap 2.5" drive bays
Internal	2 Internal 2.5" SSD bays (optional)
M.2	M.2 Interface: PCI-E 3.0 x4 and SATA Form Factor: 2280, 22110 Key: M-Key Double Height Connector
System Cooling	
Fans	6x 40x28mm PWM fans
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	
RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 0°C ~ 40°C (32°F ~ 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-X11SPW-TF	1	Super MBD-X11SPW-TF Motherboard
	CSE-513BTS-505WBP	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-0483L	2	SATA,INT,ROUND,ST-ST,29CM,30AWG
Cable 2	CBL-CDAT-0662	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
FAN 1	FAN-0154L4	2	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
Air Shroud	MCP-310-51304-0B	1	Mylar Air Shroud for SC513B + X11SPW
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
Heatsink / Retention	SNK-P0071VS	1	1U Proprietary Passive CPU Heat Sink (124 mm Long) for SYS-2029BZ-HNR Series Servers (X11 2U4N 3UPI Big Twin)
* Power Supply	PWS-505P-1H	1	1U 500W Multi-output, Platinum level w/ PMbus 24pin, W100xL180xH40mm,RoHS/REACH
* Cable 3	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
* Cable 4	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
* Bracket	MCP-240-51303-0N	1	Riser Card Bracket for WIO MB in SC513B

Notes:

1. Parts with * come with 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
Cable	CBL-0082L	-	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable	CBL-0473L	-	SATA,INT,ROUND,ST-ST,21CM,30AWG
Tray	MCP-220-00137-0N	-	Dual 2.5 HDD bracket (bracket base follow std 2.5" HDD screw holes)
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard Lp, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard Lp, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGS-i2T	-	Standard Lp, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
	AOC-S25G-b2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414
	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX

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