

SuperServer 5019GP-TT



Key Features

1. Single socket P (LGA 3647) supports Intel® Xeon® Scalable Processors
2. Up to 768GB ECC 3DS LRDIMM, up to DDR4-2666MHz; 6 DIMM slots
3. 2 PCI-E 3.0 x16 slots (support double-width GPU), 1 PCI-E 3.0 x16 low-profile slot (center left)
4. 3 Hot-swap 3.5" SAS/SATA drive bays, 1 slim DVD-ROM drive bay
5. 2x 10GBase-T LAN ports via Intel X550
6. Dual M.2 in 2280
7. 8 Heavy duty 4cm counter-rotating 4cm fans with air shroud & optimal fan speed control
8. 1400W High-efficiency Power Supply **Platinum Level (94%+)**

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

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

Specifications

Product SKUs	
SYS-5019GP-TT	▪ SuperServer 5019GP-TT (Black)

Motherboard	
Super X11SPG-TF	

Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Single Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors ▪ Support CPU TDP 70-205W
Cores	▪ Up to 28 Cores with Intel® HT Technology
GPU Support	▪ NVIDIA® Tesla® P100/P40/P4/K80/M60

System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 6 DIMM slots ▪ Up to 768GB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices	
Chipset	▪ Intel® C621 chipset
SATA	▪ SATA3 (6Gbps) with RAID 0, 1, 5, 10


Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ CSE-818GTS-1K43BP2

Dimensions	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 28.2" (716mm)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 28 lbs (12.70 kg) ▪ Gross Weight: 36 lbs (16.33 kg)
Available Color	▪ Black

Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ Hard drive activity LED ▪ Network activity LEDs ▪ System Overheat LED / Fan fail LED / UID LED

Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> ▪ 1 PCI-E 3.0 x16 slot (center right) ▪ 1 PCI-E 3.0 x16 slot (right riser)

Network Connectivity	<ul style="list-style-type: none"> Intel® X550 Dual Port 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ASPEED AST2500
Input / Output	
SATA	<ul style="list-style-type: none"> 6 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear) 2 USB 2.0 ports (rear)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port	<ul style="list-style-type: none"> 1 Fast UART 16550 header
DOM	<ul style="list-style-type: none"> 2 DOM (Disk on Module) power connectors
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI 32Mb SPI Flash ROM
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SPM, SUM SuperDoctor® 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

	<ul style="list-style-type: none"> 1 PCI-E 3.0 x16 slot (left riser)
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 3 Hot-swap 3.5" SAS/SATA drive bays
M.2	<ul style="list-style-type: none"> Dual M.2 Mini PCIe support 2280
Peripheral Bay(s)	<ul style="list-style-type: none"> 1 slim DVD-ROM drive bay or 1 USB + COM port tray
System Cooling	
Fans	<ul style="list-style-type: none"> 8 heavy duty counter-rotating 4cm fans with air shroud and optimal fan speed control
Power Supply	
1400W High-efficiency AC power supply with Digital Switching Control & PMBus 1.2	
AC Voltage	<ul style="list-style-type: none"> 1200W: 100-140 V, 14.7-10.5A, 50-60 Hz 1400W: 180-240 V, 10.5-8.0A, 50-60 Hz
+5V standby	<ul style="list-style-type: none"> 6 Amp
+12V	<ul style="list-style-type: none"> 100 Amp/115 Vac 117 Amp/230 Vac
With Power Distributor	<ul style="list-style-type: none"> +5V: 14 Amp
Certification	 Platinum Certified
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°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-X11SPG-TF	1	Super X11SPG-TF Motherboard
	CSE-818GTS-1K43BP2	1	1U SC818G Chassis
Backplane	BPN-SAS-818TQ	1	3-port 818 TQ (W/ AMI 9071) backplane, support up to 3x 3.5-inch SAS/SATA HDD
Cable 1	CBL-0484L	2	SATA,INT,ROUND,ST-ST,55CM,30AWG
Cable 2	CBL-0489L	1	SATA,INT,ROUND,ST-RA,70CM,30AWG
Cable 3	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
Cable 4	CBL-PWEX-0663	1	PCIe 8 pin male(black) to CPU 8 pin female(white) power adapter, 5cm, 18AWG, 9A/pin, 0~80C, RoHS/REACH
			GPU,2x4F/CPU to 2x4F/CPU,P4.2, 30CM,16AWG, 10A/pin, -

Cable 5	CBL-PWEX-1028	1	40~105C
Riser Card	RSC-R1U-E16R	1	RSC-R1U-E16R
Riser Card	RSC-R1UG-E16-UP	1	1U LHS Riser Card with one PCI-E x16 for UP GPU MBs
Riser Card	RSC-R1UG-E16R-UP	1	1U RHS Riser Card with 1 PCI-E x16 for UP GPU MB
Heatsink / Retention	SNK-P0067PS	1	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K43F-1R	1	1400W redundant digital power supply
FAN 1	FAN-0141L4	8	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan