

SuperServer 5019GP-TT



Integrated Board



X11SPG-TF

Views: | [Angled View](#) | [Top View](#) |
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Key Features

1. Single Socket P (LGA 3647) supports 2nd Gen. Intel® Xeon® Scalable processor (Cascade Lake/Skylake)‡
2. 6 DIMMs; up to 1.5TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM††
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. 2 M.2 form factor 2280, supports both M.2 NVMe and SATA SSD
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%+)**

Note: Image above may show a varied configuration of 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** ■ Single Socket P (LGA 3647)
 - 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)‡
 - Support CPU TDP 70-205W

- Cores** ■ Up to 28 Cores

- Note** ‡ BIOS version 3.0b or above is required to support 2nd Gen. Intel® Xeon® Scalable processors

- GPU Support** ■ NVIDIA® Tesla® P100/P40/P4/M60

System Memory

- Memory Capacity** ■ 6 DIMM slots
 - Up to 1.5TB 3DS ECC DDR4-2933MHz†
 - RDIMM/LRDIMM
 - Supports Intel® Optane™ DCPMM††

- Memory Type** ■ 2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

- Note** † 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supernico

†† Cascade Lake only. Contact your Supernico sales rep for more info.

On-Board Devices

- Chipset** ■ Intel® C621 chipset

- SATA** ■ SATA3 (6Gbps) with RAID 0, 1, 5, 10

- Network Connectivity** ■ 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** ■ Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

- Graphics** ■ ASPEED AST2500

Input / Output

- SATA** ■ 6 SATA3 (6Gbps) ports

- LAN** ■ 2 RJ45 10GBase-T ports
 - 1 RJ45 Dedicated IPMI LAN port

- USB** ■ 2 USB 3.0 ports (rear)
 - 2 USB 2.0 ports (rear)

- Video** ■ 1 VGA port

- Serial Port** ■ 1 Fast UART 16550 header

- DOM** ■ 2 DOM (Disk on Module) power connectors

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ CSE-818GTS-1K43BP2

Dimensions

- Height** ■ 1.7" (43mm)

- Width** ■ 17.2" (437mm)

- Depth** ■ 28.2" (716mm)

- Weight** ■ Net Weight: 28 lbs (12.70 kg)
 - Gross Weight: 36 lbs (16.33 kg)

- Available Color** ■ Black

Front Panel

- Buttons** ■ Power On/Off button
 - System Reset button

- LEDs** ■ Power LED
 - Hard drive activity LED
 - Network activity LEDs
 - System Overheat LED / Fan fail LED

Expansion Slots

- PCI-Express** ■ 1 PCI-E 3.0 x16 slot (center right)
 - 1 PCI-E 3.0 x16 slot (right riser)
 - 1 PCI-E 3.0 x16 slot (left riser)

Drive Bays / Storage

- Hot-swap** ■ 3 Hot-swap 3.5" SAS/SATA drive bays

- M.2** ■ Supports 2 M.2 form factor 2280
 - Supports both M.2 NVMe and SATA SSD

- Peripheral Bay(s)** ■ 1 slim DVD-ROM drive bay or 1 USB + COM port tray

System Cooling

- Fans** ■ 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** ■ 1200W: 100-140 V, 14.7-10.5A, 50-60 Hz
 - 1400W: 180-240 V, 10.5-8.0A, 50-60 Hz

- +5V standby** ■ 6 Amp

- +12V** ■ 100 Amp/115 Vac
 - 117 Amp/230 Vac

- With Power Distributor** ■ +5V: 14 Amp

Certification



Platinum Certified

System BIOS

- BIOS Type** ■ AMI 32Mb SPI Flash ROM
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Management

- Software**
- Intel® Node Manager
 - IPMI 2.0
 - KVM with dedicated LAN
 - NMI
 - SPM, SUM
 - SuperDoctor® 5
 - Watch Dog
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- Power Configurations** ■ ACPI / APM Power Management
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PC Health Monitoring

- CPU**
- Monitors for CPU Cores, Chipset Voltages, Memory.
 - 4+1 Phase-switching voltage regulator
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- FAN**
- Fans with tachometer monitoring
 - Status monitor for speed control
 - Pulse Width Modulated (PWM) fan connectors
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- Temperature**
- Monitoring for CPU and chassis environment
 - Thermal Control for fan connectors
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Operating Environment

- RoHS** ■ RoHS Compliant
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- Environmental Spec.**
- 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)
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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(w hite) power adapter, 5cm, 18AWG, 9A/pin, 0~80C, RoHS/REACH
Cable 5	CBL-PWEX-1028	1	GPU,2x4F/CPU to 2x4F/CPU,P4.2, 30CM,16AWG, 10A/pin, -40~105C
Riser Card	RSC-R1U-E16R	1	RSC-R1U-E16R
Riser Card	RSC-R1UG-E16-UP	1	1U LHS Riser Card with one PCIe x16 for UP GPU MBs
Riser Card	RSC-R1UG-E16R-UP	1	1U RHS Riser Card with 1 PCIe 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

Optional Parts List

	Part Number	Qty	Description
Other GPUs Cables	CBL-PWEX-1061	2	GPU, 2x4F/RA/CPU to two (2x3F+2x1F)/PCIe, P4.2, 34CM, 17/20AWG
AOC-S3008L-L8i (SAS3)	CBL-SAST-0699	1	Mini SAS HD-4 SATA, 12G
AOC-S3108L-H8IR-16DD (SAS3)	CBL-SAST-0699	1	Mini SAS HD-4 SATA, 12G
AOC-S3108L-H8IR (SAS3)	CBL-SAST-0699	1	Mini SAS HD-4 SATA, 12G
Super Cap for LSI 3108	BKT-BBU-BRACKET-05	1	Mounting Bracket for LSI BBUs
	BTR-TFM8G-LSICV/M02	1	LSI Super Cap
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)