

SuperServer 5018GR-T



Available Colors:

Black



Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 and E5-1600 v3 family
2. Up to 512GB ECC DDR4 2133MHz LRDIMM; 8x DIMM slots
3. 2x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards), 1x PCI-E 3.0 x8 low-profile slot
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® i350 Dual-Port GbE Controller
6. 3x 3.5" Hot-swap drive bays
7. 1400W High-efficiency Power Supply **Platinum Level (94%+)** Digital Switching Control & PMBus 1.2
8. 8x Counter rotating fans w/ optimal fan speed control

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

Specifications

Product SKUs

SYS-5018GR-T ■ SuperServer 5018GR-T (**Black**)

Motherboard

Super X10SRG-F

Processor

CPU ■ Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP **)
 ■ Single Socket R3 (LGA 2011)

Core / Cache ■ Up to 18 Cores / Up to 45MB Cache

Note ** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity ■ 8x 288-pin DDR4 DIMM slots
 ■ Up to 512GB DDR4 ECC LRDIMM
 ■ Up to 256GB DDR4 ECC RDIMM

Memory Type ■ 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin gold-plated DIMMs

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-818GTS-1K43BP**

Dimensions

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 28.2" (716mm)

Weight ■ Net Weight: 27 lbs (12.25 kg)
 ■ Gross Weight: 35.5 lbs (16.10 kg)

Available Color ■ Black

Front Panel


Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power LED
 ■ Hard drive activity LED
 ■ 2x Network activity LEDs
 ■ System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express ■ 2x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards)

| | |
|----------------------------|--|
| DIMM Sizes | <ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB |
| Memory Voltage | <ul style="list-style-type: none"> 1.2 V |
| Error Detection | <ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory) |
| On-Board Devices | |
| Chipset | <ul style="list-style-type: none"> Intel® C612 chipset |
| SATA | <ul style="list-style-type: none"> SATA3 (6Gbps) via C612 controller RAID 0, 1, 5, 10 support |
| 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 ASPEED AST2400 BMC |
| Network Controllers | <ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output |
| Graphics | <ul style="list-style-type: none"> ASPEED AST2400 BMC |
| Input / Output | |
| SATA | <ul style="list-style-type: none"> 6x SATA3 (6Gbps) ports |
| LAN | <ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port |
| USB | <ul style="list-style-type: none"> 2x USB 3.0 ports (rear) |
| Video | <ul style="list-style-type: none"> 1x VGA Connector |
| Serial Port | <ul style="list-style-type: none"> 1x Serial header |
| DOM | <ul style="list-style-type: none"> 2x DOM (Disk on Module) power connectors |
| System BIOS | |
| BIOS Type | <ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS |
| BIOS Features | <ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 DMI 2.3 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.7.1 UEFI 2.3.1 RTC (Real Time Clock) Wakeup |

| | |
|---|---|
| | <ul style="list-style-type: none"> 1x PCI-E 3.0 x8 slot for I.B. card UIO AOC Compatibility Matrix |
| Drive Bays | |
| Hot-swap | <ul style="list-style-type: none"> 3x 3.5" Hot-swap drive bays |
| System Cooling | |
| Fans | <ul style="list-style-type: none"> 8x counter-rotating fans with 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 |
| PC Health Monitoring | |
| CPU | <ul style="list-style-type: none"> Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. CPU Core 5-Phase-switching voltage regulator |
| FAN | <ul style="list-style-type: none"> Total of eight 4-pin PWM fans 8x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control |
| Temperature | <ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors PSU I²C temperature sensing logic Thermal Monitor 2 (TM2) support PECI |
| LED | <ul style="list-style-type: none"> Power Fail / Overheat LED Suspend-state Indicator LED UID LED |
| Other Features | <ul style="list-style-type: none"> SDDC Support |
| Operating Environment / Compliance | |
| RoHS | <ul style="list-style-type: none"> RoHS Compliant |
| Environmental Spec. | <ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°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-X10SRG-F | 1 | Super X10SRG-F Motherboard |
| | CSE-818GTS-1K43BP | 1 | 1U Black SC818GTQ Chassis |
| Backplane | BPN-SAS-818TQ | 1 | Sup 3X SAS/SATA hdd; SATA con |
| Cable 1 | CBL-PWEX-0582 | 1 | 8 pin to two 6+2 pin 12V GPU power cable, 30 cm 16/20 AWG,HF,RoHS/REACH,PBF |
| Cable 2 | CBL-0481L | 1 | 81CM 30AWG SATA S-S cable |
| Cable 3 | CBL-0484L | 2 | 55cm 30AWG SATA S-S cable |
| Cable 4 | CBL-CDAT-0661 | 1 | 8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH |
| Manual | MNL-1622-QRG | 1 | SYS-1018GR-T 1U UP Qucik Reference Guide,HF,RoHS/REACH |
| Riser Card | RSC-R1UG-E16R-UP | 1 | 1U RHS Riser Card with 1 PCI-E x16 for UP GPU MB |
| 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 |
| Heatsink / Retention | SNK-P0047PS | 1 | 1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB |
| Power Supply | PWS-1K43F-1R | 1 | 1400W redundant digital power supply |