

SuperServer 1018GR-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. 6x 2.5" 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-1018GR-T ■ SuperServer 1018GR-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-118GTS-1K43BP

Dimensions

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 28.5" (724mm)

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

Expansion Slots

PCI-E **91 dfYgg** ■ 2x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards)

8-AA 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 Express 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 10GBASE-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"> 6x 2.5" 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-118GTS-1K43BP	1	1U Black SC118GTQ Chassis
Backplane	BPN-SAS-118TQ	1	sup six 2.5" SAS/SATA hdd; SATA con
Cable 1	CBL-CDAT-0662	2	8 pin to 8 pin round SGPIO cable, 61.5cm, 28AWG, pinout 1-1,RoHS/REACH
Cable 2	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 3	CBL-0484L	4	55cm 30AWG SATA S-S cable
Cable 4	CBL-SAST-0624	2	70cm SATA cable S-S 30AWG,RoHS/REACH,PBF
Riser Card	RSC-R1UG-E16-UP	1	1U LHS Riser Card with one PCI-E x16 for UP GPU MBs
Riser Card	RSC-R1U-E16R	1	RSC-R1U-E16R
Riser Card	RSC-R1UG-E16R-UP	1	1U RHS Riser Card with 1 PCI-E x16 for UP GPU MB
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
Cable 5	CBL-0087	1	Front Control Cable Round 16 pin to 16 pin Ribbon 20
Cable 6	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Fan 1	FAN-0141L4	8	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Drive Tray(s)	MCP-220-00047-0B	6	Black gen 3rd hot-swap 2.5inch HDD tray
Mounting Rails	MCP-290-00054-0N	1 set	Rail set, quick/quick, optional for 1U 17.2