

SuperServer 1018GR-T



Integrated Board



X10SRG-F

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

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Manuals](#)
▶ [OS Certification Matrix](#) ▶ [Compatible GPU List](#) ▶ [Quick-References Guide](#) ▶ [Drive Options](#)

Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 and E5-1600 v4[†]/ v3 family
2. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 8 DIMM slots
3. 2 PCI-E 3.0 x16 slots (support NVIDIA GPU/Xeon Phi cards), 1 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. 6 Hot-swap 2.5" 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 of 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 v4[†]/ v3, E5-1600 v4[†]/ v3 family (up to 145W TDP **)
■ Single Socket R3 (LGA 2011)

Core / Cache ■ Up to **22 Cores**[†] / Up to **55MB**[†] Cache

Note [†] BIOS version 2.0 or above is required

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 1TB ECC 3DS LRDIMM
■ Up to 512GB ECC LRDIMM
■ Up to 512GB ECC RDIMM

Memory Type ■ **2400**[†]/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs

DIMM Sizes ■ 3DS LRDIMM: 128GB
■ LRDIMM: 64GB, 32GB
■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB

Memory Voltage ■ 1.2 V

Error Detection ■ Corrects single-bit errors

On-Board Devices

Chipset ■ Intel® C612 chipset

SATA ■ SATA3 (6Gbps) via C612 controller
■ RAID 0, 1, 5, 10 support

IPMI ■ 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 ■ 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 ■ ASPEED AST2400 BMC

Input / Output

SATA ■ 6x SATA3 (6Gbps) ports

LAN ■ 2x RJ45 Gigabit Ethernet LAN ports
■ 1x RJ45 Dedicated IPMI LAN port

USB ■ 2x USB 3.0 ports (rear)

Video ■ 1x VGA Connector

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-118GTS-1K43BP2**

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-Express ■ 2x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards)
■ 1x PCI-E 3.0 x8 slot for I.B. card
■ [UIO AOC Compatibility Matrix](#)

Drive Bays

Hot-swap ■ 6x 2.5" Hot-swap drive bays

System Cooling

Fans ■ 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 ■ 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

PC Health Monitoring

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

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdbby, +3.3 Stdbby, 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-1K43BP2	1	1U Black SC118GTQ Chassis
Backplane	BPN-SAS-118TQ	1	6-port 1U TQ (W/ AMI 9072) backplane, support up to 6x 2.5-inch SAS/SATA HDD/SSD
Cable 1	CBL-CDAT-0662	2	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
Cable 2	CBL-SAST-0624	2	SATA,INT,ROUND,ST-ST,70CM,30AWG
Cable 3	CBL-0484L	4	SATA,INT,ROUND,ST-ST,55CM,30AWG
Cable 4	CBL-PWEX-0582	1	8 pin to two 6+2 pin 12V GPU power cable, 30 cm 16/20 AWG, 10A/pin(16AWG), 6A/pin(20AWG), -25~85C, RoHS/REACH
Manual	MNL-1622-QRG	1	SYS-1018GR-T 1U UP Qucik Reference Guide,HF,RoHS/REACH
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
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