

# SuperServer 5018GR-T



**Integrated Board**



**X10SRG-F**

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

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 and E5-1600 v4<sup>†</sup>/ v3 family
2. Up to **1TB<sup>†</sup>** ECC 3DS LRDIMM , up to DDR4- **2400<sup>†</sup>**MHz ; 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 of 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 v4<sup>†</sup>/ v3, E5-1600 v4<sup>†</sup>/ v3 family (up to 145W TDP \*\*) ■ Single Socket R3 (LGA 2011)

**Core / Cache** ■ Up to **22 Cores**<sup>†</sup> / Up to **55MB**<sup>†</sup> Cache

**Note** <sup>†</sup> 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**<sup>†</sup>/ 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-818GTS-1K43BP2**

## 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) ■ 1x PCI-E 3.0 x8 slot for I.B. card ■ [UIO AOC Compatibility Matrix](#)

## Drive Bays

**Hot-swap** ■ 3x 3.5" 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

<b>Serial Port</b>	<ul style="list-style-type: none"> <li>1x Serial header</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x DOM (Disk on Module) power connectors</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>DMI 2.3</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>Hardware BIOS Virus protection</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> <li>RTC (Real Time Clock) Wakeup</li> </ul>

<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdbby, +3.3 Stdbby, VBAT, Memory Voltages.</li> <li>CPU Core 5-Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of eight 4-pin PWM fans</li> <li>8x fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Low noise fan speed control</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>PSU I<sup>2</sup>C temperature sensing logic</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>Power Fail / Overheat LED</li> <li>Suspend-state Indicator LED</li> <li>UID LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>SDDC Support</li> </ul>

#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10SRG-F	1	Super X10SRG-F Motherboard
	CSE-818GTS-1K43BP2	1	1U Black SC818GTQ Chassis
<b>Backplane</b>	BPN-SAS-818TQ	1	3-port 818 TQ (W/ AMI 9071) backplane, support up to 3x 3.5-inch SAS/SATA HDD
<b>Cable 1</b>	CBL-0484L	2	SATA,INT,ROUND,ST-ST,55CM,30AWG
<b>Cable 2</b>	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
<b>Cable 3</b>	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
<b>Cable 4</b>	CBL-0481L	1	SATA,INT,ROUND,ST-ST,81CM,30AWG
<b>Manual</b>	MNL-1622-QRG	1	SYS-1018GR-T 1U UP Qucik Reference Guide,HF,RoHS/REACH
<b>Riser Card</b>	RSC-R1UG-E16R-UP	1	1U RHS Riser Card with 1 PCI-E x16 for UP GPU MB
<b>Riser Card</b>	RSC-R1U-E16R	1	RSC-R1U-E16R
<b>Riser Card</b>	RSC-R1UG-E16-UP	1	1U LHS Riser Card with one PCI-E x16 for UP GPU MBs
<b>Heatsink / Retention</b>	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-1K43F-1R	1	1400W redundant digital power supply

### Optional Parts List

	Part Number	Qty	Description
<b>Hard Drive Carrier</b>	MCP-220-00043-0N	-	Black Hot-swap Gen4 3.5" to 2.5" HDD tray
<b>Peripheral Drives</b>	DVM-PNSC-DVD-SBT3	-	BLACK PANASONIC SLIM DVD ROM SATA
	MCP-220-81502-0N	-	DRIVE,HF,RoHS/REACH SLIM SATA DVD KIT FOR SC813, 815, 825, 835