

# SuperServer 6018R-TDTP



Available Colors:

Black



## Key Features

- **Data Center Optimized**
- **10GbE SFP+**

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 512GB ECC DDR4, up to 2133MHz; 8x DIMM slots
3. 1x PCI-E 3.0 x8 (Full-Height, Half-Length)
4. Intel® 82599ES Dual LAN 10GbE with SFP+
5. IPMI 2.0 + KVM with Dedicated LAN
6. 4x 3.5" Hot-swap SATA drive bays
7. I/O ports: 2x SuperDOM, 1x VGA, 2x COM, 2x USB 2.0
8. 600W High-efficiency Power Supply **Platinum Level (94%)**

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

## Specifications

### Product SKUs

- SYS-6018R-TDTP** ■ SuperServer 6018R-TDTP (**Black**)

### Motherboard

**Super X10DRD-LTP**

### Processor/Cache

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

- Cores / Cache** ■ Up to 18 Cores / Up to 45MB Cache

- System Bus** ■ QPI up to 9.6 GT/s

**Note** \* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

### System Memory

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

### Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-815TQ-600CB**

### Dimensions and Weight

- Width** ■ 17.2" (437mm)

- Height** ■ 1.7" (43mm)

- Depth** ■ 25.6" (650mm)

- Package** ■ 23.5" x 8.5" x 33.7"

- Gross Weight** ■ 36 lbs (16.33kg)

- Available Colors** ■ Black

### Front Panel

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

- LEDs** ■ Power status LED  
 ■ HDD activity LED  
 ■ 2x Network activity LEDs  
 ■ Universal Information (UID) LED

### Expansion Slots

<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2133/1866/1600MHz ECC DDR4 SDRAM 72-bit</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 64GB, 32GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>

#### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 Express chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1, 5, 10</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® 82599ES Dual LAN 10 Gigabit Ethernet w/ SFP+</li> <li>1x Realtek RTL8211E PHY (dedicated IPMI)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>

#### Input / Output

<b>SATA</b>	<ul style="list-style-type: none"> <li>4x SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x 10 Gigabit Ethernet SFP+ ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 2.0 ports (rear)</li> <li>1x Type A</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>2x COM Ports (1 rear, 1 header)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>

#### Management

<b>Software</b>	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li>SuperDoctor® 5</li> <li>IPMI 2.0</li> <li>SSM</li> <li>SPM</li> <li>SUM</li> <li>Watch Dog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI / APM Power Management</li> <li>Power-on mode for AC power recovery</li> </ul>

<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x8 Full-height, Half-length</li> </ul>
--------------------	--

#### Drive Bays

<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>4x 3.5" Hot-swap SATA drive bays</li> </ul>
-----------------	--

#### Backplane

1U SATA/SAS HDD Backplane
---------------------------

#### System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>5x 4cm heavy duty counter-rotating fans with optimal fan speed control</li> </ul>
-------------	--

#### Power Supply with Digital Switching Control & PMBus 1.2

600W AC power supply w/ PFC (24-pin)

<b>AC Voltage</b>	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 7.5 Amp max</li> </ul>
-------------------	--

<b>+5V</b>	<ul style="list-style-type: none"> <li>18 Amp</li> </ul>
------------	--

<b>+5V standby</b>	<ul style="list-style-type: none"> <li>3 Amp</li> </ul>
--------------------	---

<b>+12V</b>	<ul style="list-style-type: none"> <li>49 Amp</li> </ul>
-------------	--

<b>-12V</b>	<ul style="list-style-type: none"> <li>0.5 Amp</li> </ul>
-------------	---

<b>+3.3V</b>	<ul style="list-style-type: none"> <li>15 Amp</li> </ul>
--------------	--

#### Certification



**Platinum Certified**  
[ [Test Report](#) ]

#### System BIOS

<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>PCI 2.3</li> <li>ACPI 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</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: 5°C to 40°C (41°F to 104°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
Motherboard / Chassis	MBD-X10DRD-LTP	1	Super X10DRD-LTP Motherboard
	CSE-815TQ-600CB	1	1U Chassis
Backplane	BPN-SAS-815TQ-O-P	1	BPN-SAS-815TQ-O-P
Cable 1	CBL-0180L-01	1	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
Cable 2	CBL-CDAT-0661	1	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
Riser Card	RSC-RR1U-E8-O-P	1	RSC-RR1U-E8 (Rev 4.00)
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-605P-1H	1	1U 600W Multi Output Power Supply PMbus
Riser Card Bracket	MCP-120-00078-0N	1	1U riser card bracekt