

# SuperServer 6018R-TDTP



## Integrated Board



## Super X10DRD-LTP

### Available Colors:

Black



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

## Key Features

### Data Center Optimized 2x 10GbE SFP+ Ports

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
2. Up to **1TB<sup>†</sup>** ECC 3DS LRDIMM , up to DDR4- **2400<sup>†</sup>**MHz ; 8x DIMM slots
3. 1x PCI-E 3.0 x8 (FHHL) slot
4. 4x 3.5" Hot-swap SATA3 Drive Bays
5. Intel® 82599ES Dual-Port 10GbE LAN with SFP+
6. I/O ports: 1x VGA, 1x COM, 4x USB 2.0
7. 600W High-Efficiency Power Supply **Platinum Level Certified**
8. 2x SuperDOM (Disk on Module) ports
9. IPMI 2.0 + KVM with Dedicated LAN

# Specifications

## Product SKUs

<b>SYS-6018R-TDTP</b>	■ SuperServer 6018R-TDTP ( <b>Black</b> )
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## Motherboard

### Super X10DRD-LTP

## Processor/Cache

<b>CPU</b>	■ Intel® Xeon® processor E5-2600 v4 <sup>†</sup> / v3 family (up to 145W TDP) * ■ Dual Socket R3 (LGA 2011)
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<b>Cores / Cache</b>	■ Up to <b>22 Cores</b> <sup>†</sup> / Up to <b>55MB</b> <sup>†</sup> Cache
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<b>System Bus</b>	■ QPI up to 9.6 GT/s
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<b>Note</b>	<sup>†</sup> BIOS version 2.0 or above is required
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<b>Note</b>	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
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## System Memory

<b>Memory Capacity</b>	■ 8x 288-pin DDR4 DIMM slots ■ Up to 1TB <sup>†</sup> ECC 3DS LRDIMM, 512GB ECC RDIMM
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<b>Memory Type</b>	■ <b>2400</b> <sup>†</sup> /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
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<b>DIMM Sizes</b>	■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB
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<b>Memory Voltage</b>	■ 1.2 V
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<b>Error Detection</b>	■ Corrects single-bit errors
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## On-Board Devices

<b>Chipset</b>	■ Intel® C612 chipset
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<b>SATA</b>	■ SATA3 (6Gbps); RAID 0, 1, 5, 10
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<b>IPMI</b>	■ 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
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<b>Network Controllers</b>	■ Intel® 82599ES Dual port 10G SFP+ ■ Virtual Machine Device Queues reduce I/O overhead ■ Supports 10G SFP+ ■ 1x Realtek RTL8211E PHY (dedicated IPMI)
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<b>Video</b>	■ ASPEED AST2400 BMC
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## Input / Output

<b>SATA</b>	■ 4x SATA3 (6Gbps) ports ■ I-SATA 4 & I-SATA 5 support SATA DOM
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<b>LAN</b>	■ 2x 10 Gigabit Ethernet SFP+ ports ■ 1x RJ45 Dedicated IPMI LAN port
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<b>USB</b>	■ 7x USB 2.0 ports (4 rear, 2 headers, 1 Type A)
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## Chassis

<b>Form Factor</b>	■ 1U Rackmount
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<b>Model</b>	■ <b>CSE-815TQ-600CB</b>
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## Dimensions and Weight

<b>Width</b>	■ 17.2" (437mm)
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<b>Height</b>	■ 1.7" (43mm)
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<b>Depth</b>	■ 25.6" (650mm)
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<b>Package</b>	■ 23.5" (W) x 8.5" (H) x 33.7" (L)
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<b>Gross Weight</b>	■ 36 lbs (16.33 kg)
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<b>Available Colors</b>	■ Black
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## Front Panel

<b>Buttons</b>	■ Power On/Off button ■ System Reset button
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<b>LEDs</b>	■ Power status LED ■ HDD activity LED ■ 2x Network activity LEDs ■ Universal Information (UID) LED
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## Expansion Slots

<b>PCI-Express</b>	■ 1x PCI-E 3.0 x8 (FHHL) slot
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## Drive Bays

<b>Hot-swap</b>	■ 4x 3.5" Hot-swap SATA3 Drive Bays
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## Peripheral Drives

<b>DVD-ROM</b>	■ 1x Slim DVD-ROM drive (optional)
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## Backplane

SAS2/SATA3 Backplane

## System Cooling

<b>Fans</b>	■ 5x 4cm fans with optimal fan speed control
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## Power Supply

600W High-Efficiency Power Supply w/PMBus 1.2, I<sup>2</sup>C, PFC, and Digital Switching

<b>AC Input</b>	■ 100-240V, 50-60Hz
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<b>DC Output</b>	■ +3.3V: 15A ■ +5V: 18A ■ +5V standby: 3A ■ +12V: 49A ■ -12V: 0.5A
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## Certification



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

## System BIOS

<b>BIOS Type</b>	■ 128Mb SPI Flash EEPROM with AMI BIOS
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<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 Super<u>DOM</u> (Disk on Module) ports</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>
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#### Management

<b>Software</b>	<ul style="list-style-type: none"> <li><u>IPMI 2.0</u></li> <li>Intel® Node Manager</li> <li><u>SuperDoctor® 5</u></li> <li><u>SSM</u></li> <li><u>SPM</u></li> <li><u>SUM</u></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>

#### 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
<b>Motherboard / Chassis</b>	MBD-X10DRD-LTP	1	Super X10DRD-LTP Motherboard
	CSE-815TQ-600CB	1	1U Chassis
<b>Backplane</b>	BPN-SAS-815TQ	1	4-port 1U TQ backplane (W/ enclosure management), support up to 4x 3.5-inch SAS/SATA HDD
<b>Cable 1</b>	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
<b>Cable 2</b>	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
<b>FAN 1</b>	FAN-0086L4	5	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M
<b>Parts</b>	MCP-120-00078-0N	1	Optional shorter 1U riser card bracket for X9DRL-7F/EF and beyond
<b>Parts</b>	MCP-260-00087-0N	1	I/O Shield dual-port SFP bracket,RoHS/REACH
<b>Manual</b>	MNL-1713-QRG	1	SYS-6018R-TDTP, QRG,HF,RoHS/REACH
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Heatsink / Retention</b>	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-605P-1H	1	1U 600W Multi Output Power Supply PMbus
<b>Rear Window</b>	MCP-240-00085-0N	1	STD rear window for SC113 single PWS

### Optional Parts List

	Part Number	Qty	Description
<b>Network Card(s)</b>	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350
	AOC-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® 82576EB
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB
<b>DVD-ROM / DVD-RW</b>	DVM-PNSC-DVD-SBT3	-	BLACK PANASONIC SLIM DVD ROM SATA DRIVE
	DVM-TEAC-DVD-SBT3	-	BLACK TEAC SLIM DVD ROM SATA DRIVE
	DVM-PLDS-DVDRW-SBT4	-	PHILIPS SLIM BLACK DVD-RW SATA DRIVE
	DVM-TEAC-DVDRW-SBT2	-	BLACK TEAC SLIM DVD-RW SATA DRIVE
<b>DVD-ROM Accessory</b>	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)