

# SuperServer 6018R-TDW



## Integrated Board



Super X10DDW-i



## Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB ECC DDR4 2133MHz; 16x DIMM sockets
3. 2x PCI-E 3.0 x16 Full-height Half-length, 1x PCI-E 3.0 Low-profile
4. 4x 3.5" Hot-swap SATA HDD bays
5. Intel® i350 Dual port Gigabit Ethernet
6. I/O ports: 2x SuperDOM, 1x VGA, 1x COM, 2x USB 3.0, 2x USB 2.0
7. 600W High-efficiency Digital-switching Power Supply; **Platinum Level**

## Available Colors:

Black



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-TDW** ■ SuperServer 6018R-TDW (**Black**)

### Motherboard

#### Super X10DDW-i

### 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 your Supermicro sales representative for additional details.

### System Memory

- Memory Capacity** ■ 16x 288-pin DDR4 DIMM sockets  
 ■ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM
- Memory Type** ■ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
- DIMM Sizes** ■ RIMM: 32GB, 16GB, 8GB, 4GB

### Chassis

- Form Factor** ■ 1U Rackmount
- Model** ■ **CSE-815TQ-600WB**

### Dimensions and Weight

- Width** ■ 17.2" (437mm)
- Height** ■ 1.7" (43mm)
- Depth** ■ 25.6" (650mm)
- Gross Weight** ■ 46 lbs (20.9kg)
- Available Colors** ■ Black



### Front Panel

- Buttons** ■ Power On/Off button  
 ■ UID button
- LEDs** ■ Power status LED  
 ■ HDD activity LED  
 ■ 2x Network activity LEDs  
 ■ Universal Information (UID) LED

### Expansion Slots

- PCI-Express** ■ 2x PCI-E 3.0 x16 full-height, Half-length slots  
 ■ 1x PCI-E 3.0 Low-profile slot

<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>RDIMM: 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>
<b>On-Board Devices</b>	
<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® i350 Dual Port Gigabit Ethernet LAN</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</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>
<b>Input / Output</b>	
<b>Serial ATA</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 RJ45 Gigabit Ethernet ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 3.0 ports (rear)</li> <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>1x Fast UART 16550 header</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>
<b>Management</b>	
<b>Software</b>	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li>SuperDoctor® 5</li> <li>IPMI 2.0</li> <li>NMI</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>Drive Bays</b>	
<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>4x 3.5" Hot-swap SATA HDD trays</li> </ul>
<b>Backplane</b>	
SAS/SATA HDD Backplane	
<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>5x 4cm heavy-duty counter-rotating fans w/ air shroud and optimal fan speed control</li> </ul>
<b>Power Supply with Digital Switching Control &amp; PMBus 1.2</b>	
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>
<b>Certification</b>	  <b>Platinum Certified</b> <b>[ Test Report ]</b>
<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>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul>
<b>Operating Environment / Compliance</b>	
<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-X10DDW-i	1	Super X10DDW-i Motherboard
	CSE-815TQ-600WB	1	1U Chassis
<b>Backplane</b>	BPN-SAS-815TQ-O-P	1	BPN-SAS-815TQ-O-P
<b>Cable 1</b>	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
<b>Cable 2</b>	CBL-SAST-0644	1	RA IPASS TO 4 SATA, 75/75/90/90cm w/90cm SB, 30AWG,RoHS/REACH
<b>Riser Card</b>	RSC-R1UW-2E16-O-P	1	RSC-R1UW-2E16-O-P
<b>Riser Card</b>	RSC-R1UW-E8R-O-P	1	RSC-R1UW-E8R-O-P
<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>Air Shroud</b>	MCP-310-19001-0N	1	SC815/113/116 Intel DP X9, X8 PC air shroud,1368x13/12x13MB
<b>Cable 3</b>	CBL-0335L	1	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF. 28AWG
<b>Peripheral Drive 1</b>	CSE-PT93L-B	1	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS
<b>Fan 1</b>	FAN-0086L4	4	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M
<b>Drive Tray(s)</b>	MCP-220-00075-0B	4	Black gen 5.5 hot-swap 3.5" HDD tray
<b>Mounting Rails</b>	MCP-290-00105-0N	1set	Inner rail, front, screw type
<b>Mounting Rails</b>	MCP-290-00101-0N	1set	Outer rail, screw type, 25.6" to 33.05"
<b>Mounting Rails</b>	MCP-290-00109-0N	1set	Inner rail, extension (screw) for 1U 17.2

Optional Parts List			
	Part Number	Qty	Description
<b>Cable for Storage Controller Card Connection</b>	CBL-0343L-01	1	IPASS to 4 SATA Cable, 30AWG 76/66/54/45CM, W/ 66CM
<b>Rail Set</b>	MCP-290-00063-0N	1 set	Rail set, quick/quick, for 1U 17.2"W SC113
<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-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>Storage Controller Card(s)</b>	AOC-S3008L-L8e	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD, HBA
	AOC-S3008L-L8i	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S2308L-L8e	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 122HDD, HBA
	AOC-S2308L-L8i	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S2208L-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-SAS2LP-MV8	-	Standard LP, 8 internal ports (6Gb/s) Gen-2, HBA
	AOC-SAS2LP-H4iR	-	Standard LP, 4 internal & 4 external ports (6Gb/s) Gen-2, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-SAS2LP-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-2, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60