

# SuperServer 6018R-MD



## Integrated Board



Super X10DRD-L

### Available Colors:

Silver



## Key Features

### • Data Center Optimized

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) expansion slot
4. Intel® i350 Dual port GbE LAN
5. IPMI 2.0 + KVM with Dedicated LAN
6. 2x 2.5" or 1x 3.5" fixed SATA drive bay
7. I/O ports: 2x SuperDOM, 1x VGA, 2x COM, 4x USB 2.0 ports (rear)
8. 500W High-efficiency Power Supply

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-MD** ■ SuperServer 6018R-MD (**Silver**)

### Motherboard

#### Super X10DRD-L

### Processor/Cache

- CPU** ■ Intel® Xeon® processor E5-2600 v3 family (up to 120W TDP) \*  
■ Dual Socket R3 (LGA 2011)

- Cores / Cache** ■ Up to 14 Cores / Up to 35MB 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

- Memory Type** ■ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

- DIMM Sizes** ■ DIMM: 32GB, 16GB, 8GB, 4GB

### Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-514-505**

### Dimensions and Weight

- Width** ■ 17.2" (437mm)

- Height** ■ 1.7" (43mm)

- Depth** ■ 16.9" (429mm)

- Package** ■ 8" x 27" x 24"

- Gross Weight** ■ 26 lbs (11.80 kg)

- Available Colors** ■ Silver

### 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

- PCI-Express** ■ 1x PCI-E 3.0 x8 Full-height, Half-length slot

	<ul style="list-style-type: none"> <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>
<b>On-Board Devices</b>	
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1</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</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10Base-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>SATA</b>	<ul style="list-style-type: none"> <li>6x SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>4x 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>
<b>Management</b>	
<b>Software</b>	<ul style="list-style-type: none"> <li>Intel Node Manager</li> <li>IPMI 2.0</li> <li>NMI</li> <li>SuperDoctor® 5</li> <li>Watch Dog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI Power Management</li> <li>Power-on mode for AC power recovery</li> </ul>

<b>Drive Bays</b>	<ul style="list-style-type: none"> <li>2x 2.5" or 1x 3.5" fixed SATA drive bay with bracket</li> </ul>
<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>5x 4cm heavy duty counter-rotating fans with optimal fan speed control</li> </ul>
<b>Power Supply with Power Distributor</b>	
500W Multi-output power supply w/ PMbus	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz</li> </ul>
<b>+5V</b>	<ul style="list-style-type: none"> <li>Max: 15A</li> <li>Min: 0.2A</li> </ul>
<b>+12V</b>	<ul style="list-style-type: none"> <li>Max: 41A &amp; Min: 0.5A (100Vac - 240Vac)</li> </ul>
<b>+3.3V</b>	<ul style="list-style-type: none"> <li>Max: 12A</li> <li>Min: 0.2A</li> </ul>
<b>5V SB</b>	<ul style="list-style-type: none"> <li>Max: 3A</li> <li>Min: 0A</li> </ul>
<b>-12V</b>	<ul style="list-style-type: none"> <li>Max: 0.2A</li> <li>Min: 0A</li> </ul>
<b>Certification</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 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: 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

[See Parts List](#)

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRD-L	1	Super X10DRD-L Motherboard
	CSE-514-505	1	1U Chassis
<b>Cable 1</b>	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Cable 2</b>	CBL-0481L	2	81CM 30AWG SATA S-S cable
<b>Riser Card</b>	RSC-RR1U-E8-O-P	1	RSC-RR1U-E8 (Rev 4.00)
<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-505P-1H	1	1U 500W Multi-output, Platinum level w/ PMbus 24pin, W100xL180xH40mm,RoHS/REACH
<b>Fan</b>	FAN-0156L4	5	40x40x56 mm 13K-11K RPM Counter-rotating Fan,RoHS/REACH
<b>Riser Card Bracket</b>	MCP-120-00078-0N	1	1U riser card bracekt

**Optional Parts List**

	<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
<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>Onsite Service Program</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
<b>Onsite Service Program</b>	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)