

SuperServer 6018R-TDTPR



Integrated Board



Super X10DRD-LTP

Available Colors:

Black



[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ Manuals](#)
[▶ OS Certification Matrix](#)
[▶ Quick-References Guide](#)
[▶ Drive Options](#)

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[†]/v3 family; QPI up to 9.6GT/s
2. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**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. 500W Redundant High-Efficiency Power Supplies
Platinum Level Certified
8. 2x SuperDOM (Disk on Module) ports
9. IPMI 2.0 + KVM with Dedicated LAN

Specifications

Product SKUs

SYS-6018R-TDTPR	■ SuperServer 6018R-TDTPR (Black)
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Motherboard

Super X10DRD-LTP

Processor/Cache

CPU	■ Intel® Xeon® processor E5-2600 v4 [†] / v3 family (up to 145W TDP) * ■ Dual Socket R3 (LGA 2011)
Cores / Cache	■ Up to 22 Cores [†] / Up to 55MB [†] Cache
System Bus	■ QPI up to 9.6 GT/s
Note	[†] BIOS version 2.0 or above is required
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 1TB [†] ECC 3DS LRDIMM, 512GB ECC RDIMM
Memory Type	■ 2400 [†] /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB
Memory Voltage	■ 1.2 V
Error Detection	■ Corrects single-bit errors

On-Board Devices

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

Input / Output

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

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-815TQ-R500CB

Dimensions and Weight

Width	■ 17.2" (437mm)
Height	■ 1.7" (43mm)
Depth	■ 25.6" (650mm)
Package	■ 23.5" (W) x 8.5" (H) x 33.7" (L)
Gross Weight	■ 38 lbs (17.24 kg)
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

PCI-Express	■ 1x PCI-E 3.0 x8 (FHHL) slot
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Drive Bays

Hot-swap	■ 4x 3.5" Hot-swap SATA3 Drive Bays
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Peripheral Drives

DVD-ROM	■ 1x Slim DVD-ROM drive (optional)
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Backplane

SAS2/SATA3 Backplane

System Cooling

Fans	■ 5x 4cm fans with optimal fan speed control
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Power Supply

500W Redundant Power Supplies with PMBus

Total Output Power	■ 500W: 100 – 240Vac
Dimension (W x H x L)	■ 54.5 x 40.25 x 320 mm
Input	■ 100-240Vac, 50-60Hz, 6.1-2.6A
+12V	■ Max: 42A / Min: 0.5A
+5Vsb	■ Max: 4A / Min: 0A
Output Type	■ Gold Finger Connector Mating with Molex 45984-4343
With Power Distributor	■ +5V: 25A ■ +3.3V: 12A ■ -12V: 0.6A

Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x COM ports (1 rear, 1 header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports

Management

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

Certification



Platinum Certified
[[Test Report](#)]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 5°C to 40°C (41°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRD-LTP	1	Super X10DRD-LTP Motherboard
	CSE-815TQ-R500CB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	4-port 1U TQ backplane (W/ enclosure management), support up to 4x 3.5-inch SAS/SATA HDD
Cable 1	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
Cable 2	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
FAN 1	FAN-0086L4	5	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M
Parts	MCP-120-00078-0N	1	Optional shorter 1U riser card bracket for X9DRL-7F/EF and beyond
Parts	MCP-260-00087-0N	1	I/O Shield dual-port SFP bracket,RoHS/REACH
Manual	MNL-1714-QRG	1	SYS-6018R-TDTPR, QRG,HF,RoHS/REACH
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide

Optional Parts List

	Part Number	Qty	Description
Network Card(s)	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
	DVD-ROM / DVD-RW	DVM-PNSC-DVD-SBT3	-
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
DVD-ROM Accessory	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)