

SuperServer 6018R-WTRT



Integrated Board



Super X10DRW-iT

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Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/v3 family; QPI up to 9.6GT/s
2. Up to **2TB**[†] ECC 3DS LRDIMM , up to DDR4- **2400**[†]MHz ; 16x DIMM slots
3. 2x PCI-E 3.0 x16 (FHHL) - AOC support
4. Intel® X540 Dual port 10GBase-T
5. 4x 3.5" Hot-swap SAS/SATA HDD Bays for Customizable Storage
6. I/O ports: 2x SuperDOM, 1x VGA, 1x Serial, 6x USB 3.0 (4 rear)
7. 750W Redundant Power Supplies **Platinum Level** High-efficiency

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

Specifications

Product SKUs

- **SYS-6018R-WTRT** SuperServer 6018R-WTRT (**Black**)

Motherboard

Super X10DRW-iT

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** 16x 288-pin DDR4 DIMM slots
 - Up to 2TB† ECC 3DS LRDIMM/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 via Intel® C612; 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® X540 Dual Port 10GBase-T
 - Virtual Machine Device Queues reduce I/O overhead
 - Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
 - 1x Realtek RTL8211E PHY (dedicated IPMI)

- **Graphics** ASPEED AST2400 BMC

Input / Output

- **SATA/SAS** 10x SATA3 (6Gbps) ports

- **LAN** 2x RJ45 10GBase-T ports
 - 1x RJ45 Dedicated IPMI LAN port

- **USB** 6x USB 3.0 ports (4 rear + 2 via header)

- **Video** 1x VGA port

Chassis

- **Form Factor** 1U Rackmount

- **Model** **CSE-815TQ-R706WB**

Dimensions and Weight

- **Width** 17.2" (437mm)

- **Height** 1.7" (43mm)

- **Depth** 25.6" (650mm)

- **Weight** Net Weight: 25.5 lbs (11.6 kg)
 - Gross Weight: 39 lbs (17.7 kg)

- **Available Colors** Black

Front Panel

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

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

Expansion Slots

- **PCI-Express** 2x PCIe 3.0 x16 (Full-height, Half-length)
 - 1x PCIe 3.0 x8 Mezzanine for HBA cards
 - [UIO AOC Compatibility Matrix](#)

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and [AOC Support](#) for details.)

Drive Bays

- **Hot-swap** 4x 3.5" Hot-swap SAS / SATA HDD trays (ready for PCI-E storage controller card)

Peripheral Drives

- **DVD-ROM** Slim DVD-ROM drive (optional)

Backplane

SAS/SATA HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

- **Fans** 5x 4cm Counter-rotating PWM fans

AC/DC240V Input Redundant Power Supply


700W/750W Redundant Power Supplies with PMBus

- **Total Output Power** 700W/750W

- **Dimension (W x H x L)** 54.5 x 40.25 x 320 mm

- **Input** 100 - 140Vac / 8 - 6A / 50-60Hz
 - 200 - 240Vac / 4.5 - 3.8A / 50-60Hz
 - 200 - 240Vdc / 4.5 - 3.8A (CCC Only)

Serial Port / Header	<ul style="list-style-type: none"> 1x Header
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports
Management	
Software	<ul style="list-style-type: none"> SuperDoctor® 5 Watch Dog NMI IPMI 2.0 Intel Node Manager
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management Power-on mode for AC power recovery

+12V	<ul style="list-style-type: none"> Max: 58A / Min: 0.5A (100 - 140Vac) Max: 62A / Min: 0.5A (200 - 240Vac) Max: 62A / Min: 0.5A (200 - 240Vdc) <p>(CB/CCC Only)</p>
+5V sb	<ul style="list-style-type: none"> Max: 3A / Min: 0A
Output Type	<ul style="list-style-type: none"> Gold Finger Connector Mating with Molex 45984-4343
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 2.2 ACPI 1.0 / 2.0 / 3.0 / 4.0 BIOS resume hot keys USB Keyboard support SMBIOS 2.3 UEFI

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°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-X10DRW-IT	1	Super X10DRW-IT Motherboard
	CSE-815TQ-R706WB	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-0186L	1	SATA,INT,ROUND,SET OF 4,ST-RA 56/45.5/35/23CM,26AWG
Cable 2	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
FAN 1	FAN-0086L4	1	40x56 4Pin PWM, Primary for SC815, Secondary for SC818, 825M
Manual	MNL-1635-QRG	1	6018R-WTR(T) QRG,HF
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
Heatsink / Retention	SNK-P0047PSC	1	1U Passive Front CPU Heat Sink w / a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB
Heatsink / Retention	SNK-P0057PS	1	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w / a Narrow ILM MB
Power Supply	PWS-706P-1R	2	1U 750W redundant power with 54.5mm(Platinum),HF,RoHS/REACH,PBF

Optional Parts List

	Part Number	Qty	Description
2.5" to 3.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-sw ap Gen-4 2.5" to 3.5" HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT4	1	TEAC SLIM DVD ROM SATA DRIVE, HF, RoHS/REACH
	DVM-TEAC-DVDRW-SBT4	1	TEAC SLIM DVD-RW SATA DRIVE, RoHS
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS SLIM BLACK DVD-RW SATA DRIVE, HF, RoHS/REACH
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD mounting kit
Internal 2.5" HDD Tray (FDD Slot)	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD
Internal 2.5" HDD Tray (DVD Slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" slim HDD
USB/COM Port Tray (DVD Slot)	MCP-220-00114-0N	1	Black 2x USB 3.0/COM port tray in slim DVD bay
Cable for internal HDD	CBL-0489L	2	SATA,INT,ROUND,ST-RA,70CM,30AWG
	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
CacheVault(s)	BTR-CV3108-1U1	1	CacheVault for Broadcom 3108 with SuperCap mounting in 1U 40x56 fan tray
	BTR-TFM8G-LSICV M02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; SuperCap mounting bracket for PCI-E location
	BTR-TFM8G-LSICV M02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; SuperCap mounting bracket for 2.5" HDD location
SuperCap for AOC-S2208L-H8IR	BTR-0024LH-LSI00297 & BKT-BBU-BRACKET-05	-	SuperCap TFM to be used w / Supermicro AOC-S2208L-H8IR; SuperCap mounting bracket for PCI-E location
	BTR-0024LH-LSI00297 & MCP-240-00127-0N	-	SuperCap TFM to be used w / Supermicro AOC-S2208L-H8IR; SuperCap mounting bracket for 2.5" HDD location

Storage Controller Card(s) & Cables(s)	AOM-S3108M-H8 & 1x CBL-SAST-0556	-	Supermicro Low Profile 12Gb/s Eight-Port SAS Internal Mezzanine RAID Adapter; RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3108L-H8iR-16DD & 1x CBL-SAST-0556		Standard LP, 8 internal ports (12Gb/s) Gen-3, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 1x CBL-SAST-0556		Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD; RAID 0, 1, 10
	AOC-S3008L-L8e & 1x CBL-SAST-0556		Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD; HBA
	AOC-S2308L-L8e & 1x CBL-SAST-0388L-02		Standard LP, 8 internal ports (6Gb/s) Gen-3, 122HDD; HBA
	AOC-S2308L-L8i & 1x CBL-SAST-0388L-02		Standard LP, 8 internal ports (6Gb/s) Gen-3, 63HDD; RAID 0, 1, 10
	AOC-S2208L-H8iR & 1x CBL-SAST-0388L-02		Standard LP, 8 internal ports (6Gb/s) Gen-3, 240HDD; RAID 0, 1, 5, 6, 10, 50, 60
	Network Card(s)	AOC-SGP-i2	-
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 x8, 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
Front Bezel	CSE-PTFB-813-02	1	Front Bezel w/ Round Venting Holes
	CSE-PTFB-813-02B	1	Black Front Bezel w/ Round Venting Holes
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)