

SuperServer 6028R-WTRT



Integrated Board



Super X10DRW-iT



Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. 8x 3.5" Hot-swap SAS/SATA HDD bays for Customizable Storage
3. Up to 1TB ECC DDR4 2133MHz; 16x DIMM sockets
4. Riser card support up to: 4x PCI-E 3.0 x8 (2 FHFL, 2 FHHL)
5. Intel® X540 Dual port 10GBase-T
6. Integrated IPMI 2.0 and KVM with Dedicated LAN
7. I/O ports: 2x SuperDOM, 1x VGA, 2x COM, TPM 1.2, 6x USB 3.0 (4 rear, 2 via header)
8. 740W Redundant Power Supplies Platinum Level (94%+)

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-6028R-WTRT
- SuperServer 6028R-WTRT (Black)

Motherboard

Super X10DRW-iT

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

Chassis

- Form Factor
- 2U Rackmount

- Model
- [CSE-825TQ-R740WB](#)

Dimensions and Weight

- Width
- 17.2" (437mm)

- Height
- 3.5" (89mm)

- Depth
- 25.5" (648mm)

- Gross Weight
- 52 lbs (23.6kg)

- 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

Memory Type	<ul style="list-style-type: none"> 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 Express chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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)
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

SAS/SATA	<ul style="list-style-type: none"> Customizable storage
LAN	<ul style="list-style-type: none"> 2x RJ45 10GBase-T ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 6x USB 3.0 ports (4 rear + 2 via header)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port / 1 Header
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports

Expansion Slots

- 4 PCI-E 3.0 x8 slots (2x Full-height Full-length, 2x Full-height Half-length)
- [UIO AOC Compatibility Matrix](#)

PCI-Express

(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
 - 8x 3.5" Hot-swap SAS / SATA HDD trays (ready for PCI-E storage controller card)

Backplane

1x 2U SAS backplane w/ Enclosure Management (SAS support requires optional SAS controller)

Peripheral Drives

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

System Cooling

- Fans
 - 3x 80mm 7,000 RPM 4-pin PWM fans

Power Supply with Power Distributor

740W (1+1) Redundant high-efficiency power supply with PMBus

- AC Input
 - 100-240 V, 50-60 Hz, 9-3.5 Amp

- DC Output
 - 4 Amp @ +5V standby
 - 61.7 Amp @ +12V

Certification



Platinum Certified [[Test Report](#)]

System BIOS

- BIOS Type
 - 128Mb SPI Flash EEPROM with AMI BIOS
- BIOS Features
 - Plug and Play (PnP)
 - APM 1.2
 - PCI 2.2
 - ACPI 1.0 / 2.0 / 3.0 / 4.0
 - BIOS resuce hot keys
 - USB Keyboard support
 - SMBIOS 2.3
 - UEFI

Operating Environment / Compliance

- RoHS
 - RoHS Compliant
- Environmental Spec.
 - 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-825TQ-R740WB	1	2U Chassis
Backplane	BPN-SAS-825TQ-O-P	1	BPN-SAS-825TQ-O-P
Cable 1	CBL-CDAT-0661	2	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
Cable 2	CBL-0186L	2	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
Riser Card	RSC-R2UW-4E8-O-P	1	RSC-R2UW-4E8-O-P
Riser Card	RSC-R2UW-2E8R-O-P	1	RSC-R2UW-2E8R-O-P
Heatsink / Retention	SNK-P0048PSC	1	2U Passive CPU Heat Sink for X9, X10 2U WIO/WIO+ Series Servers
Heatsink / Retention	SNK-P0048PS	1	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-741P-1R	2	1U740W Platinum Redundant Single Output
Rail Set	MCP-290-00053-0N	1 set	Rail set, quick/quick, default for 2,3U 17.2"W
Optional Parts List			
	Part Number	Qty	Description
Internal 3.5"/2.5" HDD Tray Included	MCP-220-82502-0B	2	Black fixed 3.5"/2.5" HDD tray or FDD dummy tray
Internal 2.5" HDD Tray Included (COM slot)	MCP-220-00023-01	1	Black USB dummy tray support 1x 2.5" slim HDD
DVD-ROM / DVD-RW	DVM-PNSC-DVD-SBT3 DVM-TEAC-DVD-SBT3 DVM-PLDS-DVDRW-SBT4 DVM-TEAC-DVDRW-SBT2	1	SLIM DVD-ROM / DVD-RW SATA DRIVE
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD kit
USB/COM Port Tray	MCP-220-00007-01	1	Black USB/COM port tray
Internal 2.5" HDD Tray (DVD Slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" HDD
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-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
Storage Controller Card(s)	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
Onsite Service Program	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	QSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)