

SuperServer 1028R-TDW



Integrated Board



Super X10DDW-i

Available Colors:

Black



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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

3 AOCs and 1 AOM SAS3 Mezzanine Card

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) slots
1x PCI-E 3.0 x8 (LP) slot
4. 8x 2.5" Hot-swap SATA3 Drive Bays
5. Intel® i350 Dual-Port 1GbE LAN
6. I/O ports: 1x VGA, 2x USB 3.0, 2x USB 2.0
7. 600W High-Efficiency Power Supply
Platinum Level Certified
8. 2x SuperDOM (Disk on Module) ports
9. IPMI 2.0 + KVM with Dedicated LAN

Specifications

Product SKUs

SYS-1028R-TDW ■ SuperServer 1028R-TDW (Black)

Motherboard

Super X10DDW-i

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, 1TB 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® i350 Dual Port Gigabit Ethernet
■ 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 ■ ASPEED AST2400 BMC

Input / Output

SATA ■ 8x SATA3 (6Gbps) ports
■ I-SATA 4 & I-SATA 5 support SATA DOM

LAN ■ 2x RJ45 Gigabit Ethernet LAN ports
■ 1x RJ45 Dedicated IPMI LAN port

Chassis

Form Factor ■ 1U Rackmount

Model ■ **CSE-113TQ-600WB**

Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 1.7" (43mm)

Depth ■ 23.5" (597mm)

Package ■ 25" (W) x 6" (H) x 33" (L)

Gross Weight ■ 46 lbs (20.9kg)

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 PCI-E 3.0 x16 (FHHL) slots
■ 1x PCI-E 3.0 x8 (LP) slot

Drive Bays

Hot-swap ■ 8x 2.5" Hot-swap SATA3 Drive Bays

Peripheral Drives

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

Backplane

SAS2/SATA3 Backplane

System Cooling

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

Power Supply

600W High-Efficiency Power Supply w/PMBus 1.2, I²C, PFC, and Digital Switching

AC Input ■ 100-240V, 50-60Hz

DC Output ■ +3.3V: 15A
■ +5V: 18A
■ +5V standby: 3A
■ +12V: 49A
■ -12V: 0.5A

Certification



Platinum Certified
[**Test Report**]

System BIOS

USB	<ul style="list-style-type: none"> 3x USB 3.0 ports (2 rear, 1 Type A) 4x USB 2.0 ports (2 rear, 2 headers)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x COM port (header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports

Management

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

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 1.0 / 2.0 / 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)

Список деталей

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DDW-i	1	Super X10DDW-i Motherboard
	CSE-113TQ-600WB	1	1U Chassis
Backplane	BPN-SAS-113TQ	1	8-port 1U TQ (W/ AMI 9072) backplane, support up to 8x 2.5-inch SAS/SATA HDD/SSD
Cable 1	CBL-SAST-0659	2	MINI SAS(RA)-4 SATA(ST),INT,75/75/70/70CM,75CM SB,30AWG
Cable 2	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Manual	MNL-1684-QRG	1	SYS-1028R-TDW, QRG,HF,RoHS/REACH
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
Riser Card	RSC-R1UW-E8R	1	1U RHS WIO Riser card with one PCI-E x8 slot
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Fan	FAN-0086L4	5	40x56, 4 Pin PWM
Power Supply	PWS-605P-1H	1	1U 600W Multi Output Power Supply PMbus

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)