

SuperServer 6028UX-TR4 (Complete System Only)



Integrated Board



Super X10DRU-X

Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 2 CPUs and 4 DIMMs).

► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory at Hyper-Speed](#) ► [Tested Memory](#) ► [NVMe Options](#) ► [Manuals](#) ► [OS Certification Matrix](#) ► [Quick-References Guide](#) ► [Drive Options](#) ► [Network Card \(AOC\) Matrix](#)

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

Key Features

Support Hyper-Speed

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. 3x PCI-E 3.0 x16 slot (FH, 10.5" L), 3x PCI-E 3.0 x8 slots (1 in x16 FH 10.5" L, 1 LP, 1 Internal LP)
4. 4x Gigabit Ethernet ports
5. 12x Hot-swap 3.5" Drive Bays: SATA3 default, 12x SAS3 opt. 4x NVMe opt. via AOC
6. 4x heavy duty fans w/ optimal fan speed control
7. 1000W High efficiency (96%) Redundant PSU; **Titanium Level**

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

SYS-6028UX-TR4 SuperServer 6028UX-TR4 (Black)

Motherboard

Super X10DRU-X

Processor/Cache

CPU	- Intel® Xeon® processor E5-2600 v4[†]/ v3 family (up to 160W 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, 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) with 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 Connectivity	4x Gigabit Ethernet ports via AOC-2UR68-i4G
Graphics	ASPEED AST2400 BMC

Input / Output

SATA	10x SATA3 (6Gbps) ports
SAS	12x SAS3 ports support via optional Add-on Card
NVMe	4x NVMe ports support via optional Ultra Riser card (AOC-2UR8N4-i2XT)
LAN	4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	5x USB 3.0 ports (2 rear, 2 onboard header, 1 Type A)

Chassis

Form Factor	2U Rackmount
Model	CSE-829UTS-R1K02P

Dimensions and Weight

Width	17.2" (437mm)
Height	3.5" (89mm)
Depth	25.5" (647mm)
Weight	- Net Weight: 36 lbs (16.4 kg) - Gross Weight: 72 lbs (32.7 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 - System information (overheat/UID) LED

Expansion Slots

PCI-Express	3x PCI-E 3.0 x16 slot (FH, 10.5" L) 3x PCI-E 3.0 x8 slots (1 in x16 FH 10.5" L, 1 LP, 1 Internal LP) (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.)
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Drive Bays

Hot-swap	12x Hot-swap 3.5" Drive Bays: 10x SATA3 ports by default - Optional SAS3 support: 12x SAS3 - Optional NVMe support: 4x NVMe via AOC-2UR8N4-i2XT (2x 10GBase-T ports) Note: optional storage card is required to support more than 10 drives.
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Backplane

2U SAS/SATA backplane

System Cooling

Fans	4x 8cm heavy duty PWM fans
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Power Supply

1000W Redundant Power Supplies with PMBus	
Total Output Power	800W: 100 – 127Vac 1000W: 200 – 240Vac 1000W: 200 – 240Vdc (for CCC only)
Dimension (W x H x L)	73.5 x 40 x 203 mm

Video	1x VGA Connector
Serial Port / Header	1x Serial header
DOM	2x SuperDOM (Disk on Module) ports
Management	
Software	- SuperDoctor® 5 - Watch Dog - NMI, SPM, SUM - IPMI 2.0 - Intel Node Manager
Power Configurations	- ACPI / APM Power Management - Power-on mode for AC power recovery

Input	100-127Vac / 9.8 - 7A / 50-60Hz 200-240Vac / 7 - 5A / 50-60Hz 200-240Vdc / 7 - 5A (for CCC only)
+12V	- Max: 66.7A / Min: 0A (100-127Vac) - Max: 83A / Min: 0A (200-240Vac) - Max: 83A / Min: 0A (200-240Vdc)
12Vsb	Max: 2.1A / Min: 0A
Output Type	25 Pairs Gold Finger Connector
Certification	  Titanium Level [Test Report]

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	- 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	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)

Список деталей

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRU-X	1	Super X10DRU-X Motherboard
	CSE-829UTS-R1K02P	1	2U Chassis
Add-on Card / Module	AOC-2UR68-I4G-P	1	2U Ultra Riser based on Intel i350AM4 controller with 4 GbE RJ45 ports, 1 internal PCI-E x8 3.0 slot, 1 PCI-E x16 3.0, and 1 PCI-E x8 3.0 (in x16 slot)
Air Shroud	MCP-310-82913-0N	1	
Backplane	BPN-SAS3-826A-N4	1	12-port 2U SAS3 12Gbps hybrid backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD and 4x SAS3/SATA3/NVMe Storage Devices
Cable 1	CBL-SAST-0655	1	MINI SAS HD(ST)-MINI SAS(RA-RS EXIT),6G,INT,47CM,SB,30AWG
Cable 2	CBL-SAST-0657	1	MINI SAS HD(ST)-MINI SAS(RA-RS EXIT),6G,INT,55CM,SB,30AWG
Cable 3	CBL-PWEX-0652	1	8 pin female to 2x RA(Right Angle) big 4 pin female power, 60/65CM, 18AWG,RoHS/REACH
Cable 4	CBL-PWEX-0673	1	8 pin female to 2x big 4 pin female power, 65/70CM, 18AWG,RoHS/REACH
Cable 5	CBL-SAST-0631	1	MINI SAS HD-4 SATA,6G,INT,RF,Cross Over,55CM,55CM SB,30AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1706-QRG	1	QRG for SYS-6028UX-TR4,HF,RoHS/REACH
Riser Card	RSC-R1UW-E8R	1	1U RHS WIO Riser card with one PCI-E x8 slot
Riser Card	RSC-W2-66	1	RSC-W2-66
Heatsink / Retention	SNK-P0058PU	2	2U Passive CPU Heat Sink for X10 2U 16-DIMM Ultra Series Servers,RoHS/REACH
Parts	MCP-240-82911-ASM-OEM	1	GPU kit for SC829U, 219U, Tool-less
Power Supply	PWS-1K02A-1R	2	1U 1000W Redundant Power Supply 73.5mm width Titanium Level,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Storage Control Card and Cable(s)	AOC-S3008L-L8e	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122HDD, HBA
	AOC-S3008L-L8i		Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR		Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
Network Card(s)	AOC-SGP-i2/4	-	Standard LP, 2/4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i1S/i2S	-	Standard LP, 1/2x 10GbE SFP+, PCI-E x8, Intel 82599EN
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	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
	AOC-S40G-i2Q	-	Standard LP 2-port 40GbE controller, based on Intel Fortville XL710
	More	-	AOC Compatibility Matrix
CacheVault(s)	BTR-CV3108-U1	-	CacheVault for Broadcom 3108 with Supercap mounting for 2U Ultra
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; Supercap mounting bracket for 2.5" HDD location
Hot-swap 3.5" to 2.5" Hard Disk Drive Tray	MCP-220-00043-0N	-	Black hot-swap 3.5" to 2.5" HDD tray
Converter Tray	MCP-220-00118-0B	-	Black gen-5.5 tool-less hot-swap 3.5" to 2.5" converter tray
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)