

SuperServer 6018U-TRTP+ (Complete System Only)



Integrated Board



X10DRU-i+

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](#) ▶ [Manuals](#)
▶ [Compatible GPU List](#) ▶ [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

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to **3TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 24x DIMM slots
3. 2x PCI-E 3.0 x16 slots (FH, 10.5" L), 2x PCI-E 3.0 x8 slots (LP, 1 internal)
4. 2x 10G SFP+ ports
5. 4x 3.5" Hot-swap Drive Bays
6. 4x heavy duty fans w/ optimal fan speed control
7. I/O ports: 2x SuperDOM, 1x VGA, 1x Serial, 5x USB 3.0
8. 750W Redundant Power Supplies **Platinum Level (94%+)**

Specifications

Product SKUs

SYS-6018U-TRTP+	■ SuperServer 6018U-TRTP+ (Black)
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Motherboard

Super X10DRU-i+

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	■ 24x 288-pin DDR4 DIMM slots ■ Up to 3TB [†] ECC 3DS LRDIMM, 1.5TB ECC RDIMM/LRDIMM
Memory Type	■ 2400 [†] /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit ■ 2666/2400 ECC DDR4 NVDIMM
DIMM Sizes	■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB ■ NVDIMM: 16GB
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	■ 2x 10G SFP+ ports via AOC-URN2-I2XS ■ Intel® 82599ES 10G SFP+ ■ 1x Realtek RTL8211E PHY (dedicated IPMI)
Graphics	■ ASPEED AST2400 BMC

Input / Output

SATA	■ 4x SATA3 (6Gbps) ports
LAN	■ 2x 10G SFP+ ports ■ 1x RJ45 Dedicated IPMI LAN port
USB	■ 5x USB 3.0 ports (2 rear, 2 onboard header, 1 Type A)

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-819UTQ-R751-T

Dimensions and Weight

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 29.7" (754mm)
Weight	■ Net Weight: 26 lbs (11.8 kg) ■ Gross Weight: 41 lbs (18.6 kg)
Available Color	■ Black

Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power LED ■ Hard drive activity LED ■ 2x Network activity LEDs ■ System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	■ 2x PCI-E 3.0 x16 slots (Full-height, 10.5" L) ■ 2x PCI-E 3.0 x8 slots (Low-profile, 1 internal) (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	■ 4x 3.5" Hot-swap drive bays
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System Cooling

Fans	■ 4x heavy duty fans with optimal fan speed control ■ 4x additional fans optional
Air Shroud	■ 1x Air Shroud

Power Supply

750W Redundant AC-DC Power Supplies, +12V/+12Vsb output	
AC Input	■ 100-127Vac, 50-60Hz ■ 200-240Vac, 50-60Hz
+12V	■ Max: 62.5A & Min: 0A (100Vac-127Vac) ■ Max: 62.5A & Min: 0A (200Vac-240Vac)
12V SB	■ Max: 2.1A ■ Min: 0A

Certification



Platinum Level

[[Test Report](#)]

Video	<ul style="list-style-type: none"> 1x VGA Connector
Serial Port	<ul style="list-style-type: none"> 1x Serial header
DOM	<ul style="list-style-type: none"> 2x SATA <u>DOM</u> (Disk on Module) support with embedded power

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 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

Management

Software	<ul style="list-style-type: none"> <u>SuperDoctor® 5</u> Intel® Node Manager 3.0 Watch Dog NMI <u>SUM</u> and <u>SSM</u> Optional IPMI 1.5 / 2.0
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. 5+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> 8x 4-pin fan headers Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Support to monitor Supermicro AOC temperatures from IPMI or SD 5 Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> Memory DIMM ECC error LEDs CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> 4x 8-pin GPU power connectors Chassis intrusion detection Chassis intrusion header SDDC Support RoHS

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-X10DRU-i+	1	Super X10DRU-i+ Motherboard
	CSE-819UTQ-R751-T	1	CSE-819UTQ-R751-T Chassis
Air Shroud	MCP-310-81903-0B	1	Mylar air shroud set for SC819U,119U (X10DRU+),HF
Add-on Card / Module	AOC-URN2-I2XS	1	1U Ultra Riser based on Intel 82599ES controller with 2 10Gb SFP+ ports, 2 NVMe ports, and 1 internal PCI-E x8 3.0 slot
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-PWEX-0702	1	PWEX,2X4F/P4.2 TO 1X4F/P5.08/RA,32CM,18AWG,YEL,BLK*2,RED
Cable 2	CBL-SAST-0654	1	MINI SAS(RA-RS EXIT)-4 SATA,INT,52/42/41/51CM,52CM SB,30AWG
Parts	MCP-150-00009-0B	1	Internal AOC rubber support for SC819U, 119U
Rear Window	MCP-240-81910-0N	1	Rear window for SC819U, 119U tool-less chassis (i2XS)
Manual	MNL-1679-QRG	1	SYS-6018U-TR(4/4T/T/TP)+, 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
Power Supply	PWS-751P-1R	2	1U 750W Redundant Platinum Single Output Power Supply w/Pmbus W73.5xH40xL203mm,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Mounting Rails	MCP-290-00062-0N	-	Inner/outer rail set, quick-release type, 25.6" to 33.05"
	MCP-290-00064-0N	-	Thumb screw adapter of inner rail for 1U 17.2"
	MCP-290-00052-0N-BULK	-	Bulk outer rail, quick-release type, 25.6" to 33.05" (10 sets/pack)
10GbE SFP+ Direct Attach Cable (DAC, copper wire)	CBL-0347L	-	1M 10G SFP+ to SFP+ Passive Copper M-M Pull type 30AWG
	CBL-0348L	-	3M 10G SFP+ to SFP+ Passive Copper M-M Pull type 24AWG
	CBL-0349L	-	5M 10G SFP+ to SFP+ Passive Copper M-M Pull type 24AWG
	CBL-NTWK-0347	-	1M 10G SFP+ to SFP+ Passive Copper M-M Push type 30AWG
	CBL-NTWK-0456	-	2M 10G SFP+ to SFP+ Passive Copper M-M Push type 30AWG
Storage Control Card and Cable for SAS3 Drive Bays	AOC-S3008L-L8e & 1x CBL-SAST-0948	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122HDD, HBA; Internal mini SAS HD to 4 SATA 60CM, S, w/ 60cm SB
	AOC-S3008L-L8i & 1x CBL-SAST-0948	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E; Internal mini SAS HD to 4 SATA 60CM, S, w/ 60cm SB
	AOC-S3108L-H8iR & 1x CBL-SAST-0948	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60; Internal mini SAS HD to 4 SATA 60CM, S, w/ 60cm SB
Compatible Networking Cables and Transceivers for System default Networking (AOC-URN2-i2XS)	-	1~2	Networking Cables and Transceivers Compatibility Matrix
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-CV3108-1U1	-	CacheVault for Broadcom 3108 with Supercap mounting in 1U
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	40x56 fan tray CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E 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

DVD-ROM / DVD-RW	DVM-PNSC-DVD-SBT3 DVM-TEAC-DVD-SBT3 DVM-PLDS-DVDRW-SBT4	1	SLIM DVD-ROM / DVD-RW SATA DRIVE
DVD-ROM / DVD-RW Installation Kit	MCP-220-81502-0N	1	Slim SATA DVD 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" HDD
USB Port Tray (FDD Slot)	MCP-220-00129-0B	1	Black 2x USB 3.0 port tray in slim FDD bay
Fan	FAN-0101L4	Up to 4	40x40x56 mm, 14.4K-10.7K RPM Counter-rotating Cooling Fan
1U Cable Management Arm	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
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)