

## SuperServer 6018U-TR4T+ (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<sup>†</sup>/v3 family; QPI up to 9.6GT/s
2. Up to **3TB<sup>†</sup>** ECC 3DS LRDIMM , up to DDR4- **2400<sup>†</sup>**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. 4x 10GBase-T 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 - Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

**SYS-6018U-TR4T+** ■ SuperServer 6018U-TR4T+ (Black)

## Motherboard

**Super X10DRU-i+**

## Processor/Cache

**CPU** ■ Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family (up to 160W TDP) \*  
■ Dual Socket R3 (LGA 2011)

**Cores / Cache** ■ Up to **22 Cores**<sup>†</sup> / Up to **55MB**<sup>†</sup> 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<sup>†</sup> ECC 3DS LRDIMM, 1.5TB ECC RDIMM/LRDIMM

**Memory Type** ■ **2400**<sup>†</sup>/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** ■ 4x 10GBase-T ports via [AOC-UR-i4XT](#)  
■ Intel® X540 10GBase-T  
■ 1x Realtek RTL8211E PHY (dedicated IPMI)

**Graphics** ■ ASPEED AST2400 BMC

## Input / Output

**SATA** ■ 4x SATA3 (6Gbps) ports

**LAN** ■ 4x RJ45 10GBase-T 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.)**

## Drive Bays

**Hot-swap** ■ 4x 3.5" Hot-swap drive bays

## 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 ]**

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

#### System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul>

#### Management

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

#### PC Health Monitoring

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

#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 5°C to 40°C (41°F to 104°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRU-i+	1	Super X10DRU-i+ Motherboard
	CSE-819UTQ-R751-T	1	CSE-819UTQ-R751-T Chassis
<b>Air Shroud</b>	MCP-310-81903-0B	1	Mylar air shroud set for SC819U,119U (X10DRU+),HF
<b>Add-on Card / Module</b>	AOC-UR-I4XT-P	1	1U Ultra Riser based on Intel X540 controller with 4 10Gbase-T ports and 1 internal PCI-E x8 3.0 slot
<b>Backplane</b>	BPN-SAS-815TQ	1	4-port 1U TQ backplane (W/ enclosure management), support up to 4x 3.5-inch SAS/SATA HDD
<b>Cable 1</b>	CBL-PWEX-0702	1	PWEX,2X4F/P4.2 TO 1X4F/P5.08/RA,32CM,18AWG,YEL,BLK*2,RED
<b>Cable 2</b>	CBL-SAST-0654	1	MINI SAS(RA-RS EXIT)-4 SATA,INT,52/42/41/51CM,52CM SB,30AWG
<b>Parts</b>	MCP-150-00009-0B	1	Internal AOC rubber support for SC819U, 119U
<b>Manual</b>	MNL-1679-QRG	1	SYS-6018U-TR(4/4T/T/TP)+, QRG,HF,RoHS/REACH
<b>Riser Card</b>	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
<b>Riser Card</b>	RSC-R1UW-E8R	1	1U RHS WIO Riser card with one PCI-E x8 slot
<b>Heatsink / Retention</b>	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	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
<b>Mounting Rails</b>	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)
<b>Storage Control Card and Cable for SAS3 Drive Bays</b>	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
<b>Network Card(s)</b>	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	-	<a href="#">AOC Compatibility Matrix</a>
<b>CacheVault(s)</b>	BTR-CV3108-1U1	-	CacheVault for Broadcom 3108 with Supercap mounting in 1U 40x56 fan tray
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E location
<b>Hot-swap 3.5" to 2.5" Hard Disk Drive Tray</b>	MCP-220-00043-0N	-	Black hot-swap 3.5" to 2.5" HDD tray
<b>DVD-ROM / DVD-RW</b>	DVM-PNSC-DVD-SBT3 DVM-TEAC-DVD-SBT3 DVM-PLDS-DVDRW-SBT4	1	SLIM DVD-ROM / DVD-RW SATA DRIVE
<b>DVD-ROM / DVD-RW Installation Kit</b>	MCP-220-81502-0N	1	Slim SATA DVD kit
<b>Internal 2.5" HDD Tray (FDD Slot)</b>	MCP-220-83601-0B	1	Black FDD dummy tray support 1x 2.5" slim HDD

<b>Internal 2.5" HDD Tray (DVD Slot)</b>	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" HDD
<b>USB Port Tray (FDD Slot)</b>	MCP-220-00129-0B	1	Black 2x USB 3.0 port tray in slim FDD bay
<b>Fan</b>	FAN-0101L4	Up to 4	40x40x56 mm, 14.4K-10.7K RPM Counter-rotating Cooling Fan
<b>1U Cable Management Arm</b>	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-OOB-LIC</u> • <i>eStore</i>	1	OOB Management Package (per node license)
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)