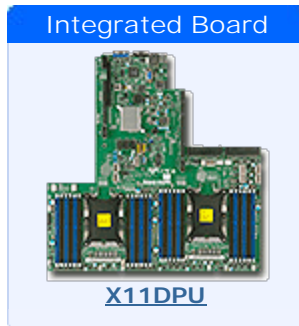


# SuperServer 6019U-TR4 (Complete System Only)



## Key Features

- Virtualization
- Cloud Computing
- High End Enterprise Server

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 3TB ECC 3DS LRDIMM or RDIMM, up to DDR4-2666MHz; 24 DIMM slots
3. 2 PCI-E 3.0 x16 slots (FH, 10.5" L), 2 PCI-E 3.0 x8 slots (1 LP, 1 internal LP)
4. 4 Gigabit Ethernet ports
5. 4 Hot-swap 3.5" Drive Bays
6. 8 Heavy duty fans w/ optimal fan speed control
7. 750W Redundant Power Supplies Platinum Level (94%+)

Due to the complexity of integration, this product is sold as completely assembled systems only (with minimum 2 CPU and 4 DIMM). Please contact your Supermicro sales rep for special requirements.

[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ OS Certification Matrix](#)
[▶ Drive Options](#)

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

## Specifications

### Product SKUs

SYS-6019U-TR4 ■ SuperServer 6019U-TR4 (Black)

### Motherboard

Super X11DPU

### Processor/Cache

- CPU
- Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
  - Support CPU TDP 70-205W
- Cores
- Up to 28 Cores with Intel® HT Technology

### System Memory

- Memory Capacity
- 24 DIMM slots
  - Up to 3TB ECC 3DS LRDIMM, 3TB ECC RDIMM, DDR4 up to 2666MHz
- Memory Type
- 2666/2400/2133MHz ECC DDR4 SDRAM

### Chassis

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

### Dimensions and Weight

- Height
- 1.7" (43mm)
- Width
- 17.2" (437mm)
- Depth
- 29" (737mm)
- 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
  - Network activity LEDs
  - System Overheat LED / Fan fail LED / UID LED

## On-Board Devices

Chipset	▪ Intel® C621 chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Connectivity	▪ 4 Gigabit Ethernet ports via AOC-UR-I4G (Intel® i350AM4)
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	▪ ASPEED AST2500 BMC

## Input / Output

SATA	▪ 4 SATA3 (6Gbps) ports
LAN	▪ 4 RJ45 Gigabit Ethernet ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 3 USB 3.0 ports (2 rear, 1 Type A)
Video	▪ 2 VGA ports (1 rear, 1 onboard)
Serial Port	▪ 1 Serial header
DOM	▪ 2 SATA <u>DOM</u> (Disk on Module) support with embedded power

## System BIOS

BIOS Type	▪ AMI 32Mb SPI Flash ROM
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## Management

Software	▪ Intel® Node Manager ▪ <u>IPMI 2.0</u> ▪ KVM with dedicated LAN ▪ NMI ▪ <u>SSM</u> , <u>SPM</u> , <u>SUM</u> ▪ <u>SuperDoctor® 5</u>
Power Configurations	▪ ACPI Power Management

## PC Health Monitoring

CPU	▪ Monitors for CPU Cores, Chipset Voltages, Memory. ▪ 4+1 Phase-switching voltage regulator
FAN	▪ Fans with tachometer monitoring ▪ Status monitor for speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	▪ Monitoring for CPU and chassis environment ▪ Thermal Control for fan connectors

## Expansion Slots

	▪ 2 PCI-E 3.0 x16 (Full-height, 10.5" L) ▪ 2 PCI-E 3.0 x8 (1 LP, 1 internal LP)
PCI-Express	(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and <a href="#">AOC Support</a> for details.)


## Drive Bays

Hot-swap	▪ 4 Hot-swap 3.5" drive bays ▪ 4 SATA3 (optional SAS3 via AOC)
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## System Cooling

Fans	▪ 8 Heavy duty fans with optimal fan speed control
Air Shroud	▪ 1 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 [ <a href="#">Test Report</a> ]

## Operating Environment

RoHS	▪ RoHS Compliant
Environmental Spec.	▪ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ▪ Non-operating Temperature: -40°C to 60°C (-40°F to 140°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
<b>Motherboard / Chassis</b>	MBD-X11DPU	1	Super X11DPU Motherboard
	CSE-819UTQ-R751-T	1	CSE-819UTQ-R751-T Chassis
<b>Add-on Card / Module</b>	AOC-UR-I4G	1	1U Ultra Riser based on Intel i350AM4 controller with 4 GbE RJ45 ports and 1 internal PCI-E x8 3.0 slot
<b>Backplane</b>	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS3/SATA3 HDD/SSD
<b>Cable 1</b>	CBL-PWEX-0702	1	8 pin female to RA(Right Angle) big 4 pin female power, 32cm, 18AWG, pinout 5-1, 3-2, 4-3, 7-4,RoHS/REACH
<b>Cable 2</b>	CBL-SAST-0654	1	RA side exit (right) IPASS TO 4 SATA, 52/42/41/51CM w/52cm SB, 30AWG,RoHS/REACH
<b>FAN 1</b>	FAN-0101L4	4	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
<b>Air Shroud</b>	MCP-310-81910-0N	1	Plastic air shroud for SC819U, 119U (X11 24DIMM, left side)
<b>Riser Card</b>	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
<b>Riser Card</b>	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
<b>Heatsink / Retention</b>	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<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>2 Internal M.2 slots (1 SATA, 1 NVMe)</b>	RSC-UMR-8 & CBL-SAST-0538	1	1U Ultra RHS Riser Card with 1 PCIE/SATA Hybrid M.2 &1 PCIE X8
<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
	AOC-S3008L-L8i & 1x CBL-SAST-0948		Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E
	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
<b>Network Card(s)</b>	AOC-S40G-i2Q	-	Standard LP 2-port 40GbE controller, based on Intel Fortville XL710
	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-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 82599EN
	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
<b>CachVault(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
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; Supercap mounting bracket for 2.5" HDD 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>Global Services &amp; Support</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)