

# Supermicro Server 2048U-RTR4

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## Highlights

4-Way multiple processor system for mission critical applications and advanced analytics



- 4 x Intel Xeon E5-4600 v4 Series
- 48 x DDR4 slots, up to 6TB RAM
- 24 x Hot-swap 2.5" drive bays
- 4 x Hybrid NVMe ports via AOC
- Quad 1GbE
- Build-to-order configured to the requirements



**BLUE LINE**  
IT for Demanding Environments

- has more than 30 years experience
- delivers reliable IT solutions for demanding environments
- builds compact and high performance solutions
- focuses on long duration, 24/7-operation, and ruggedness
- is ISO 9001:2015-certified
- is known for providing the best assistance and services in all phases.

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## Specifications

### Model Type

Server

### Form Factor

2U rackmount

### Cooling

4 x Heavy duty 8cm PWM fans

### Environment

Operating temperature 10°C to 35°C

Non-operating temperature -40°C to 70°C

Operating humidity 8% to 90% (non-condensing)

Non-operating humidity 5% to 95% (non-condensing)

### Certification

UL / cUL / CB / BSMI / CE / CCC

### Processor

CPU Intel® Xeon E5-2600 v4 / v3 family (up to 135W TDP) quad socket R3

Cores / cache Up to 22 cores / up to 55MB cache

System Bus QPI up to 9.6 GT/s

### Chipset

Intel® C612

### RAM

Memory capacity 48 x 288pin DDR4 DIMM slots  
up to 6TB ECC 3DS LRDIMM  
up to 3TB ECC LRDIMM  
up to 1.5TB ECC RDIMM

Memory type 1600 / 1866 / 2133 / 2400MHz ECC DDR4  
SDRAM 72bit

DIMM sizes RDIMM 4GB / 8GB / 16GB / 32GB  
LRDIMM 32GB / 64GB  
3DS LRDIMM 128GB

Memory voltage 1.2V

Error detection corrects single-bit errors

### Storage

24 x Hot-swap drive bays

Default 10 SATA3 ports (2 x SATA DOM / internal HDD)

Option for 24 x SAS3 ports via AOC

Option for 20 x SAS3 ports via AOC & 4 x NVMe ports via AOC

### Input / Output

Rear 4 x RJ45 GbE LAN, 1 x RJ45 dedicated IPMI LAN

1 x VGA connector, 2 x superDOM

4 x hybrid ports with NVMe are supported via AOC

5 x USB 3.0 ports (2 x rear, 2 x header, 1 x type A)

Internal 2 x USB 2.0 ports

10 x SATA3 (6Gbps) ports

24 x SAS3 ports are supported via optional add-on cards

1 x serial header

### Expansion

9 x PCI-E 3.0 x8 slots (include 4 x PCI-E 3.0 x8 internal slots)

2 x PCI-E 3.0 x16 slots

### Operating System

WHQL

RHEL / Ubuntu / SUSE

VMware

### Power Supply

1000W redundant power supplies with PMBus

Total output power 800W / 1000W

Input 100V to 127V AC / 9.8 to 7A / 50 to 60Hz  
200V to 240V AC / 7 to 5A / 50 to 60Hz  
200V to 240V DC / 7 to 5A (for CCC only)

+12V max 66.7A / min 0A (100V to 127V AC)  
max 83A / min 0A (200V to 240V AC)  
max 830A / min 0A (200V to 240V DC)

12Vsb max 2.1A / min 0A

Output type 25 pairs gold finger connector

### Dimension and Weight

H 89 x W 437 x D 780mm 19.4kg



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## Accessories Included

- 1 x Black mylar air shroud for X10QRH+ in SC218U, HF, RoHS / REACH
- 2 x Mini SAS HD (ST)-mini SAS (RA - RS exit) 6G, INT, 85cm, SB, 30AWG, Ro
- 3 x 8pin (female) to 2 x big 4pin (female) power, 65 / 70cm, 18AWG, RoHS / REACH
- 2 x 1U 1000W redundant powersupply 73.5mm width titanium level, RoHS / REACH

## Accessories Optional

- 2000W power supply kit  
(Power adapter bracket for 2K03P in SC218U, HF, RoHS / REACH)  
(1U 2000W redundant power supply platinum 73.5mm width)

## Warranty and After Sales Support

- Standard 1 year hardware warranty for barebone
- 3 year hardware warranty & 1 year cross shipment for complete system CPU / MEM / DISK
- Option for 5 year hardware warranty & 1 year cross shipment / 3 year hardware warranty & 3 year cross shipment

