

# Supermicro GPU Server 1028GQ-TVRT

---



---

## Highlights

Enterprise GPU server for HPC, AI, big data analytics, research lab, astro physics, and business intelligence.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.



- 1U rack mount chassis
- 2 x Intel Xeon E5-2600 v4 Series
- Up to 4 NVIDIA Tesla V100 SXM2 GPUs
- Up to 300GB/s GPU-to-GPU NVLINK
- NVIDIA GPUDirect RDMA optimized
- 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.

# Supermicro GPU Server 1028GQ-TVRT

## Specifications

### Model Type

GPU server

### Form Factor

1U rackmount

### Cooling

7 x 4cm Heavy duty counter-rotating fans (with air shroud & optimal speed control)

### 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 145W TPD) dual socket R3

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

System bus QPI up to 9.6GT/s

### Chipset

Intel® C612

### RAM

Memory capacity 16 x 288pin DDR4 DIMM slots up to 1TB ECC 3DS LRDIMM, 1TB ECC RDIMM

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

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

Memory voltage 1.2V

Error detection corrects single-bit errors

### Storage

2 x Hot-swap 2.5" drive bays

2 x Internal 2.5" drive bays

### Input / Output

Rear 2 x RJ45 10GBase-T, 1 x RJ45 dedicated IPMI 1 x VGA connector

2 x USB 3.0

Internal 6 x SATA3 (6Gbps) ports

1 x serial header

### Expansion

3 x PCI-E 3.0 x16 slots

1 x PCI-E 3.0 x8 low-profile slot

### Power Supply

2000W redundant power supplies with PMBus

Total output power 1000W/1800W/1980W/2000W

Input 100V to 120V AC / 12.5 to 9.5A / 50 to 60Hz 200V to 220V AC / 10 to 9.5A / 50 to 60Hz 220V to 230V AC / 10 to 9.8A / 50 to 60Hz 230V to 240V AC / 10 to 9.8A / 50 to 60Hz 200V to 240V AC / 11.8 to 9.8A / 50 to 60Hz (UL/cUL only)

+12V max 83.3A / min 0A (100V to 120V AC) max 150A / min 0A (200V to 220V AC) max 165A / min 0A (220V to 230V AC) max 166.7A / min 0A (230V to 240V AC) max 166.7A / min 0A (200V to 240V AC) (UL/cUL only)

12Vsb max 2.1A / min 0A

Output type 25 pairs gold finger connector

### Dimension and Weight

H 43 x W437 x D 894mm 15.9kg

### Accessories Included



**BLUE LINE**  
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark  
T +45 8678 5000 | [www.blue-line.com](http://www.blue-line.com)

# Supermicro GPU Server 1028GQ-TVRT

---

## Manual

4 x Oculink x8 cable 50cm 34AWG, RoHS  
4 x SATA, INT, round, ST, 55cm, 30AWG  
1 x PCIe 8pin female (black) to CPU 8pin female (white),  
M60 / M40 GPU power cable, 30cm, 18AWG, 10A/pin, 0°C  
to 80°C, RoHS / REACH  
1 x GPU, 2x4F / RA / PCIe to 2x4F / CPU, P4.2, 42cm,  
17AWG, 8A/pin, -25°C to 85°C, RoHS / REACH  
2 x GPU, 2x4F / RA / PCIe to 2x4F / RA / CPU, P4.2, 5.5cm,  
17AWG, 8A/pin, -25°C to 85°C, RoHS / REACH  
2 x 1U high performance passive CPU heat sink for x9/x10  
systems equipped w/ a square ILM MB  
4 x 1U passive GPU heat sink for NVIDIA SXM2 module  
equipped with pascal / volta GPU  
2 x 1U 2000W redundant titanium power supply w/ PMbus  
73.5 x 40 x 265mm, RoHS / REACH  
1 x Rail set, quick, auto latch, travel 535mm short version,  
post-to-post 685mm

---

## Accessories Optional

SC118GQP Pascal GPU dummy & air shroud mylar module  
Mini SAS HD to 4 SATA 12G  
Mounting bracket for LSI BBUs  
LSI super cap

---

## 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



**BLUE LINE**  
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark  
T +45 8678 5000 | [www.blue-line.com](http://www.blue-line.com)