

Supermicro GPU Server 2028GR-TRH/TRHT



Highlights

Enterprise GPU server for HPC, AI, big data analytics, and GRID

- 2U rack mount chassis
- 2 x Intel Xeon E5-2600 v4 Series
- Up to 6 double-width GPUs
- Dual 1 or 10GbE
- 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

GPU server

Form Factor

2U rackmount

Cooling

5 x Heavy duty 8cm fans (with 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) |

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 2TB 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

10 x Hot-swap 2.5" drive bays

Input / Output

| | |
|----------|--|
| Rear | 2 x RJ45 10GBase-T (TRHT) / 1 x RJ45 gigabit (TRH) 1 x RJ45 dedicated IPMI 1 x VGA connector 4 x USB 3.0 (2 x rear, 2 x header), 2 x USB 2.0 (header) |
| Internal | 10 x SATA3 (6Gbps) ports 1 x serial header |

Expansion

| |
|--|
| 4 x PCI-E 3.0 x16 slots |
| 1 x PCI-E 3.0 x8 (in x16) low-profile slot |

Operating System

| |
|----------------------|
| WHQL |
| RHEL / Ubuntu / SUSE |
| VMware |
| Citrix |

Power Supply

| | |
|--------------------|---|
| | 2000W 1U 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 / 10 to 9.8A (UL/cUL only) 200V to 240V DC / 10 to 9.1A (CCC only) |
| +12V | max 83.3A / min 0.1A (100V to 120V AC) max 150A / min 0.1A (200V to 220V AC) max 165A / min 0.1A (220V to 230V AC) max 166.7A / min 0.1A (230V to 240V AC) max 166.7A / min 0.1A (200V to 240V AC) (UL/cUL only) |
| 12Vsb | max 3.5A / min 0A |
| Output type | 25 pairs gold finger connector |

Dimension and Weight

| | |
|------------------------|--------|
| H 89 x W 437 x D 787mm | 17.9kg |
|------------------------|--------|

Accessories Included



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2 x (EOL) 30AWG 58CM IPASS to 4 x SATA w/ SB cross over
2 x SATA, INT, round, ST, 55cm, 30AWG
6 x 8pin to 2 x 6/2pin 12V GPU power cable, 30cm
16/20AWG, 10A/pin (16AWG), 6A/pin (20AWG), -25°C to
85°C, RoHS / REACH
1 x 8pin to 2 x 4pin backplane power ext 28 / 22cm,
18AWG
1 x CBL, SGPIO, 2x4F to 2x4F, P2.54, ribbon in tube,40cm,
28AWG
1 x Manual
1 x 2U passive CPU heat sink for x9/x10 systems equipped
w/ a narrow ILM MB
1 x 1U passive CPU heat sink for x9/x10 systems equipped
w/ a narrow ILM MB
2 x 1U 2000W redundant power supply platinum 73.5mm
width, RoHS / REACH

Accessories Optional

PCIe 8pin female (black) to CPU 8pin female (white), K80 /
M60 / M40 GPU power for 300W card, 30cm, 18AWG
1 x Broadcom supercap w/ 8GB CV & 24" cable (whole kit)
1 x Broadcom supercap bracket, include screw (same size
as 2.5" HDD)

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

