

# Supermicro SuperServer SYS-1029GQ-TVRT 1U DP 4xGPU V100 SXM2 2xSFF 2x10GbE RED PSU

Kod producenta: SYS-1029GQ-TVRT



|                        |  |
|------------------------|--|
| Chassis Form Factor    | Rack 1U  |
| CPU Socket             | LGA 3647 (Socket P)  |
| # of CPU sockets       | 2  |
| Supported CPU's        | Intel Xeon Scalable 1st Gen<br>Intel Xeon Scalable 2nd Gen |
| Max CPU TDP            | 165 W  |
| Chipset                | Intel C621   |
| Memory Type            | DDR4 ECC LRDIMM<br>DDR4 ECC RDIMM                          |
| Memory Speed           | 2933 MHz<br>2666 MHz<br>2400 MHz<br>2133 MHz               |
| # of DIMM's            | 12   |
| Max Memory Size        | 1536 GB  |
| Integrated GPU         | Aspeed AST2500   |
| Hardware GPU           | up to 4 NVIDIA® Tesla® V100 SXM2 GPUs                      |
| # of 2.5 hot-swap bays | 2  |
| # of PCIe x16 3.0      | 4  |
| # of USB Ports         | 2 x USB 3.0 (rear)   |
| # of SATA Ports        | 4  |
| Storage Controllers    | 4 x SATA 6Gb/s   |
| Integrated RAID        | 0,1,5,10   |
| # of Serial Ports      | 1 x Fast UART 16550 (header)                               |
| # of 10GbE Ports       | 2 x RJ45   |
| Network Controllers    | Intel X540 Dual Port 10GBase-T                             |
| Integrated BMC         | IPMI Dedicated RJ45  |
| BMC chip               | Aspeed AST2500   |
| Power Supply           | Redundant 1+1  |
| PSU Wattage            | 2000 W   |
| PSU Certification      | 80+ Titanium   |
| Chassis Dimensions     | 437 x 43 x 894 mm  |

Poniżej prezentujemy szczegółowy opis techniczny oferowanego produktu:

**UWAGA !!!**

*Ze względu na wysoki stopień integracji platforma dostępna jest tylko i wyłącznie jako gotowy system wraz z CPU, RAM i HDD oraz dodatkowymi kartami rozszerzeń. Prosimy o kontakt z nami w celu*

*przedstawienia oferty na interesującą Państwa konfigurację.*

## Product SKUs

SYS-1029GQ-TVRT • SuperServer 1029GQ-TVRT (Black)

## Motherboard

### Super X11DGQ

## Processor/Cache

- CPU**
- Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
  - Support CPU TDP up to 165W
- Cores**
- Up to 28 Cores with Intel® HT Technology
- GPU**
- 4 NVIDIA® Tesla® V100 SXM2 GPUs
  - Up to 300GB/s GPU-to-GPU NVIDIA® NVLINK™

## System Memory

- 12 DIMM slots
- Memory Capacity** • Up to 1.5TB ECC 3DS LRDIMM, 1.5TB ECC RDIMM, DDR4 up to 2666MHz
- Memory Type** • 2666/2400/2133MHz ECC DDR4 SDRAM

## On-Board Devices

- Chipset**
- Intel® C621 chipset
- SATA**
- SATA3 (6Gbps) with RAID 0, 1, 5, 10
  - Intel® X540 Dual Port 10GBase-T
  - Virtual Machine Device Queues reduce I/O overhead
- Network Connectivity**
- Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
  - Support for Intelligent Platform Management Interface v.2.0
  - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
  - ASPEED AST2500 BMC
- IPMI**
- Graphics**

## Input / Output

- SATA** • 4 SATA3 (6Gbps) ports
- LAN** • 2 RJ45 10GBase-T ports  
• 1 RJ45 Dedicated IPMI LAN port
- USB** • 2 USB 3.0 ports (rear)
- Video** • 1 VGA port
- Serial Header** • 1 Fast UART 16550 header

## System BIOS

- BIOS Type** • AMI 32Mb SPI Flash ROM

## Management

- Software**
- Intel® Node Manager
  - [IPMI 2.0](#)
  - KVM with dedicated LAN
  - [SSM](#), [SPM](#), [SUM](#)
  - [SuperDoctor® 5](#)
  - Watch Dog
- Power Configurations** • ACPI / APM 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

## Chassis

- Form Factor** • 1U Rackmount
- Model** • **CSE-118GQPTS-R2K05P2**

## Dimensions and Weight

- Height** • 1.7" (43mm)
- Width** • 17.2" (437mm)
- Depth** • 35.2" (894mm)  
• 39.3" (997mm) with rails
- Package** • 24" (H) x 8" (W) x 46" (D)
- Weight** • Net Weight: 45 lbs (20.41 kg)  
• Gross Weight: 58 lbs (26.31 kg)
- Available Color** • Black

## Front Panel

- Buttons**
- Power On/Off button
  - UID button
  - Power LED
  - Hard drive activity LED
  - Network activity LEDs
  - System Overheat LED / Fan fail LED / UID LED
- LEDs**

## Expansion Slots

- PCI-Express** • 4 PCI-E 3.0 x16 slots

## Drive Bays

- 2 Hot-swap 2.5" SAS/SATA drive bays
- Hot-swap** Note: Can be upgraded to 2 U.2 NVMe drives by addition of optional NVMe kit (please see details in optional parts list below).
- Fixed** • 2 Internal 2.5" drive bays
- M.2** • Support 1x M.2 2242/2260/2280  
• Support M.2 SATA and NVMe

## System Cooling

- Fans** • 7 Heavy duty 4cm counter-rotating fans with air shroud & optimal fan speed control

## Power Supply

2000W Redundant Power Supplies with PMBus

- Total Output Power** • 1000W/1800W/1980W/2000W

- Dimension (W x H x L)** • 73.5 x 40 x 265 mm

- Input**
- 100-120Vac / 12.5-9.5A / 50-60Hz
  - 200-220Vac / 10-9.5A / 50-60Hz
  - 220-230Vac / 10-9.8A / 50-60Hz
  - 230-240Vac / 10-9.8A / 50-60Hz
  - 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)

- Max: 83.3A / Min: 0A (100-120Vac)
- Max: 150A / Min: 0A (200-220Vac)
- Max: 165A / Min: 0A (220-230Vac)
- Max: 166.7A / Min: 0A (230-240Vac)
- Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)

- +12V**
- Max: 2.1A / Min: 0A
- 12Vsb**
- Max: 2.1A / Min: 0A
- Output Type** • 25 Pairs Gold Finger Connector



**Certification** UL/cUL/CB/BSMI/CE/CCC

**Titanium Level**  
[\[ Test Report \]](#)

## Operating Environment

- RoHS**
- RoHS Compliant
  - Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
  - Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Environmental Spec.**
- Operating Relative Humidity: 8% to 90% (non-condensing)
  - Non-operating Relative Humidity: 5% to 95% (non-condensing)

## Parts List - (Items Included)

|                              | Part Number          | Qty | Description   |
|------------------------------|----------------------|-----|---|
| <b>Motherboard / Chassis</b> | MBD-X11DGQ           | 1   | Super X11DGQ Motherboard  |
|                              | CSE-118GQPTS-R2K05P2 | 1   | CSE-118GQPTS-R2K05P2 Chassis  |
| <b>Add-on Card / Module</b>  | AOM-PIO-I2XT-P       | 1   | AOM-PIO-I2XT  |
| <b>Add-on Card / Module</b>  | AOM-SXMV-P           | 1   | AOM housing Volta SXM 2.0 modules in conjunction with X11DGQ DP MB,HF,RoHS                  |
| <b>Backplane</b>             | BPN-SAS3-118GQE      | 1   | 2-port 1U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD               |
| <b>Cable 1</b>               | CBL-0484L            | 4   | SATA,INT,ROUND,ST-ST,55CM,30AWG   |
| <b>Cable 2</b>               | CBL-PWEX-1025        | 3   | GPU,2x4F/RA/CPU to 2x4F/RA/CPU,P4.2, 6CM,17AWG, 8A/pin, -25~85C, RoHS                       |
| <b>Cable 3</b>               | CBL-PWEX-1028        | 1   | GPU,2x4F/CPU to 2x4F/CPU,P4.2, 30CM,16AWG, 10A/pin, -40~105C                                |
| <b>Cable 4</b>               | CBL-SAST-0934-12     | 4   | Oculink-Oculink X8 Cable 50cm 34AWG,RoHS  |
| <b>Riser Card</b>            | RSC-G-A66-X1         | 1   | 1U RHS Active Rear Riser card with two PCI-E x16 Slot,HF,RoH                                |
| <b>Riser Card</b>            | RSC-GN2-66           | 1   | 1U Passive LHS GPU Riser Card with two NVMe ports and two PC                                |
| <b>Heatsink / Retention</b>  | SNK-P0067PS          | 2   | 1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism |
| <b>Heatsink / Retention</b>  | SNK-P4004V           | 4   | 1U Passive GPU Heat Sink for NVIDIA SXM2 Module Equipped with Pascal or Volta GPU           |
| <b>Power Supply</b>          | PWS-2K05A-1R         | 2   | 1U 2000W Redundant Titanium Power Supply W/PMbus 73.5x40x265mm,RoHS/REACH                   |
| <b>FAN 1</b>                 | FAN-0163L4           | 7   | 40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan  |
| <b>Rear Window</b>           | MCP-240-11807-0N     | 1   | SC118GQE Rear Window for 2x PCI-FL or 4th GPU   |
| <b>Rail Set</b>              | MCP-290-11809-0N     | 1   | Rail set, Quick/Quick, Auto Latch, travel 535mm Short Version, Post to Post 685mm           |

Optional Parts List

|                                      | <b>Part Number</b>         | <b>Qty</b> | <b>Description</b>   |
|--------------------------------------|----------------------------|------------|--|
| <b>AOC-S3008L-L8i (SAS3)</b>         | CBL-SAST-0699              | 1          | Mini SAS HD to 4 SATA 12G                                  |
| <b>AOC-S3108L-H8IR-16DD (SAS3)</b>   | CBL-SAST-0699              | 1          | Mini SAS HD to 4 SATA 12G                                  |
| <b>AOC-S3108L-H8IR (SAS3)</b>        | CBL-SAST-0699              | 1          | Mini SAS HD to 4 SATA 12G                                  |
| <b>Super Cap for LSI 3108</b>        | BKT-BBU-BRACKET-05         | 1          | Mounting Bracket for LSI BBUs                              |
|                                      | BTR-TFM8G-LSICVM02         | 1          | LSI Super Cap  |
| <b>SXM2 GPU Dummy</b>                | MCP-120-11812-0N           | 1          | Optional SXM2 GPU dummy                                    |
|                                      | BPN-NVMe3-118GQE           | 1          | NVMe Backplane   |
| <b>U.2 NVMe Kit</b>                  | CBL-SAST-0935-12           | 1          | Oculink cable x8   |
|                                      | MCP-220-00121-0B           | 2          | NVMe HS tray   |
| <b>TPM</b>                           | AOM-TPM-9670H              | -          | SPI capable horizontal TPM 2.0 provisioned for client,RoHS |
| <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)           |

Strona firmowa produktu:

<https://www.superstorage.pl/supermicro-superserver-sys-1029gq-tvrt-1u-dp-4xgpu-v100-sxm2-2xsff-2x10gbe-red-psu-p-3836.html>