

CyberServe Xeon SP2-1029GQ-TRT GPU Server

Ultra High-Density GPU Computing 1U Supercomputer, 4x Tesla or GTX-Titan GPU Cards - 20,000 CUDA Cores

Dear , If you would like any further information on the CyberServe Xeon SP2-1029GQ-TRT GPU Server, or if you would like to discuss your quote, don't hesitate to call your Broadberry account manager on 020 8997 6000 and quote reference "PDBC56737", or simply reply to this email.

What Now?

1. Call 020 8997 6000
2. Ask For Bill Carless
3. Quote Reference PDBC56737

RRP: £18,206.50

Ex. VAT

£14,565.20

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We won't be beaten on price! We're so confident in our fantastic value, we guarantee you won't find the same spec at this price elsewhere!

further information

<https://www.broadberry.co.uk/xeon-scalable-processors-rackmount-servers/broadberry-1029gq-trt>

System Summary

| | |
|--|--|
| Supermicro SuperServers | Supermicro SuperServer 1029GQ-TRT SYS-1029GQ-TRT |
| Processor | 2x Intel Xeon Gold 6226R Processor - 16 Cores, 2.90GHz, 22MB Cache (150Watt) |
| Memory | 12x 32GB 2933MHz DDR4 ECC Registered DIMM Module |
| Hard Drive | 2x 1.9TB Intel SSD S4510 DataCentre SERIES 2.5IN SATA3 TLC |
| Nvidia Tesla and AMD FirePro GPU Compute Cards | 3x NVIDIA Quadro RTX A5000 - 8192 Cuda Cores, 24GB ECC GDDR6 |
| Total Price: | £14,565.20 |
| Lease From: | £308.05 per month over 5 years, or £475.99 over 3 years. |

Bank Details:

Broadberry Data Systems Ltd, NATWEST West Ealing, 162 Uxbridge Road, London, W13 8JL
Account No: 40248933, Branch Sort-Code: 60-23-13, IBAN: GB10 NWBK 6023 1340 2489 33



Your Configured System Specifications

Supermicro SuperServer 1029GQ-TRT | SYS-1029GQ-TRT

| BIOS | |
|---------------------------------|---------------------------|
| BIOS memory size | 32 Mbit |
| BIOS type | AMI |
| Design | |
| Fan diameter | 4 cm |
| Form factor | 1U |
| LED indicators | HDD,Heating,Network,Power |
| Number of fans | 9 fan(s) |
| On/off switch | Y |
| Product colour | Black |
| RoHS compliance | Y |
| Expansion slots | |
| PCI Express slots version | 3.0 |
| PCI Express x16 slots | 5 |
| PCI Express x8 slots | 1 |
| Graphics | |
| On-board graphics adapter model | Aspeed AST2500 |
| Memory | |
| ECC | Y |
| Maximum internal memory | 1500 GB |
| Maximum RDIMM memory | 1500 GB |
| Number of DIMM slots | 12 |
| Supported memory types | DDR4-SDRAM |

| Supported RDIMM clock speeds | 2133,2400,2666 MHz |
|--|---------------------------------|
| Networking | |
| Copper ethernet cabling technology | 10GBASE-T,100BASE-TX,1000BASE-T |
| Ethernet LAN | Y |
| Ethernet LAN data rates | 100,1000,10000 Mbit/s |
| LAN controller | Intel® X550 |
| Operational conditions | |
| Operating relative humidity (H-H) | 8 - 90% |
| Operating temperature (T-T) | 10 - 35 °C |
| Storage relative humidity (H-H) | 5 - 95% |
| Storage temperature (T-T) | -40 - 60 °C |
| Performance | |
| PC health monitoring | CPU,FAN,Temperature |
| Ports & interfaces | |
| Ethernet LAN (RJ-45) ports | 2 |
| IPMI LAN (RJ-45) port | Y |
| Number of SATA III connectors | 4 |
| USB 3.0 (3.1 Gen 1) Type-A ports quantity | 4 |
| VGA (D-Sub) ports quantity | 1 |
| Power | |
| Number of redundant power supplies installed | 2 |
| Power supply | 2000 W |

| Redundant power supply (RPS) support | Y |
|--------------------------------------|----------------|
| Processor | |
| Built-in processor | N |
| Compatible processor series | Intel® Xeon® |
| Motherboard chipset | Intel® C621 |
| Number of processors supported | 2 |
| Processor socket | LGA 3647 |
| System bus rate | 10.4 GT/s |
| Storage | |
| Hot-swap HDD bays | Y |
| Number of storage drives supported | 4 |
| RAID levels | 0, 1, 5, 10 |
| Storage drive sizes supported | 2.5" |
| Supported storage drive interfaces | Serial ATA III |
| Technical details | |
| Number of 2.5" bays | 4 |
| Weight & dimensions | |
| Depth | 894 mm |
| Height | 43 mm |
| Package weight | 21.8 kg |
| Weight | 15.9 kg |
| Width | 437 mm |

2x Intel Xeon Gold 6226R Processor - 16 Cores, 2.90GHz, 22MB Cache (150Watt)

| Features | |
|--|----------------------------|
| Embedded options available | Y |
| Execute Disable Bit | Y |
| Harmonized System (HS) code | 8542310001 |
| Maximum number of PCI Express lanes | 48 |
| PCI Express CEM revision | 3.0 |
| PCI Express slots version | 3.0 |
| Scalability | 25 |
| Supported instruction sets | SSE4.2,AVX,AVX 2.0,AVX-512 |
| Graphics | |
| Discrete graphics adapter | N |
| Discrete graphics adapter model | Not available |
| On-board graphics adapter | N |
| On-board graphics adapter model | Not available |
| Memory | |
| ECC | Y |
| Maximum internal memory supported by processor | 1024 GB |
| Memory channels | Hexa |
| Memory clock speeds supported by processor | 2933 MHz |
| Memory types supported by processor | DDR4-SDRAM |
| Operational conditions | |
| Tcase | 85 °C |
| Power | |
| Thermal Design Power (TDP) | 150 W |

| Processor | |
|--|-------------------|
| Box | Y |
| Cooler included | N |
| Intel Volume Management Device (VMD) | Y |
| Processor boost frequency | 3.9 GHz |
| Processor cache | 22 MB |
| Processor codename | Cascade Lake |
| Processor cores | 16 |
| Processor family | Intel® Xeon® Gold |
| Processor frequency | 2.9 GHz |
| Processor lithography | 14 nm |
| Processor model | 6226R |
| Processor operating modes | 64-bit |
| Processor socket | LGA 3647 |
| Processor threads | 32 |
| Processor special features | |
| AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Enhanced Intel SpeedStep Technology | Y |
| Intel 64 | Y |
| Intel Speed Select Technology (SST) | N |
| Intel Trusted Execution Technology | Y |
| Intel Turbo Boost Max Technology 3.0 | N |
| Intel Virtualization Technology (VT-x) | Y |

| Intel Virtualization Technology for Directed I/O (VT-d) | Y |
|---|----------|
| Intel VT-x with Extended Page Tables (EPT) | Y |
| Intel® AES New Instructions (Intel® AES-NI) | Y |
| Intel® Deep Learning Boost | Y |
| Intel® Deep Learning Boost (Intel® DL Boost) | Y |
| Intel® Hyper Threading Technology (Intel® HT Technology) | Y |
| Intel® Optane? DC Persistent Memory Supported | Y |
| Intel® Optane? DC Persistent Memory technology | Y |
| Intel® Resource Director Technology (Intel® RDT) | Y |
| Intel® Run Sure Technology | Y |
| Intel® Speed Select technology - Base Frequency | N |
| Intel® Speed Select Technology - Base Frequency (Intel® SST-BF) | N |
| Intel® Speed Select technology - Performance Profile | N |
| Intel® Speed Shift Technology | Y |
| Intel® Turbo Boost Technology | 2.0 |
| Intel® Volume Management Device (VMD) | Y |
| Intel® vPro? Platform Eligibility | Y |
| Mode-based Execute Control (MBE) | Y |
| Technical details | |
| Memory speed (max) | 2933 MHz |
| Number of UPI links | 2 |

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12x 32GB 2933MHz DDR4 ECC Registered DIMM Module

| Features | | Memory clock speed | | Row cycle time | |
|----------------------|-----------------------|---------------------------------|--------------|--------------------------------|--------------|
| Buffered memory type | Registered (buffered) | 2933 MHz | | 45.75 ns | |
| CAS latency | 21 | Memory form factor | 288-pin DIMM | Operational conditions | |
| ECC | Y | Memory voltage | 1.2 V | Operating temperature (T-T) | 0 - 85 °C |
| Internal memory | 32 GB | Programming power voltage (VPP) | 2.5 V | Storage temperature (T-T) | -55 - 100 °C |
| Internal memory type | DDR4 | Refresh row cycle time | 350 ns | Weight & dimensions | |
| JEDEC standard | Y | RoHS compliance | Y | Height | 31.2 mm |
| Lead plating | Gold | Row active time | 32 ns | Width | 133.3 mm |

2x 1.9TB Intel SSD S4510 DataCentre SERIES 2.5IN SATA3 TLC

| Brand-specific features | | Performance | | Random write (100% span) | |
|---------------------------------------|----------------------------|--|------------|-------------------------------------|---|
| Intel High Endurance Technology (HET) | N | Enhanced Power Loss Data Protection technology | Y | 35500 IOPS | |
| Design | | Latency (read) | 36 Åµs | SSD temperature monitoring | Y |
| Product codename | Youngsville Refresh | Latency (write) | 37 Åµs | Uncorrectable Bit Error Rate (UBER) | 1 sector per 10 ¹⁷ bits read |
| Product family | Data center SSD | Random read (100% span) | 97000 IOPS | | |
| Product series | Intel® SSD D3-S4510 Series | | | | |

3x NVIDIA Quadro RTX A5000 - 8192 Cuda Cores, 24GB ECC GDDR6

| Memory | | Processor | | Graphics processor family | |
|----------------------------------|-------|-----------|---|---------------------------|--|
| Discrete graphics adapter memory | 24 GB | CUDA | Y | NVIDIA | |
| Graphics adapter memory type | GDDR6 | | | | |



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CyberServe Xeon SP2-1029GQ-TRT GPU Server features



3 Years Warranty as Standard

Buy with confidence knowing all Broadberry CyberServe rack servers are backed up by our 3 year warranty, with further warranty upgrade options available.



Trusted CyberServe Server Platform

The Broadberry range of CyberServe® rackmount are trusted as the server of choice for thousands of companies from SMBs to enterprise's across the globe.



Configure with up to 1.5TB RAM

Ready for the most demanding enterprise applications, the Broadberry CyberServe Xeon SP2-1029GQ-TRT GPU Server can be configured with up to 12 DDR4 ECC Registered memory modules.



Extra Expansion Slots

The CyberServe Xeon SP2-1029GQ-TRT GPU Server has 2 PCI-Express expansion slots allowing for plenty of future expandibility



Optional Hot-Swap Power Supply

The CyberServe Xeon SP2-1029GQ-TRT GPU Server is configurable with a hot-swap redundant power supply, meaning minimal down-time for mission critical applications.



Based on Tesla GPU

GPU SuperComputing servers offer massive processing power and HPC performance, considerably accelerating applications.



Supports SATA Drives

This system can be configured with SATA drives for cost-effective 12gb/s storage.



Small Form Factor Storage

The CyberServe Xeon SP2-1029GQ-TRT GPU Server boasts high density storage and ultimate energy efficiency, catering for up to 2x High-Performance 2.5" SSD or Hard Drives



Dual Intel Xeon SP Processors

Designed for the most demanding tasks, the dual socket range of CyberServe Xeon SP® servers support the latest Intel Xeon® processor Scalable series

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Performance Breakthroughs

Powered by the revolutionary Intel Xeon SP processor range, CyberServe Xeon SP servers deliver massive improvements in every metric over the previous generation of Xeon E7 and E5 processors.



Designed for Cloud Computing

The Broadberry CyberServe Xeon SP® range has been built from the ground up for private / hybrid cloud environments, clustering, virtualised infrastructure and database management.



Completely Redesigned QPI

The Broadberry CyberServe Xeon SP® range has a completely redesigned QPI system, producing up to 21% improvement in data efficiency as well as a 50% reduction in idle power.



With IPMI Remote Management

All Broadberry CyberServe Xeon SP® rack servers are compatible with iPMI functionality, enabling complete control and management of your server through IP.



Reduce I/O Network Latency

Boasting Intel Integrated I/O on the processor, Broadberry CyberServe Xeon SP® servers accelerate data availability to the processing cores, reducing latency by up to 30%.



Intel® AVX-512 Boosts Speed

Intel Advanced Vector Extensions 512, the latest x86 vector instruction set with up to two fused-multiply add units and other optimisations, accelerates performance for the most demanding computational tasks.



Intel® QuickAssist Technology

Improving performance across applications and platforms, Intel QAT enhances security and compression performance in cloud, networking, big data, and storage applications.



More Advanced Omni-Path

The CyberServe Xeon SP® range replaces InfiniBand technology with a newer, more advanced interconnect called Omni-Path, allowing for 100Gbps bandwidth with no loss of PCIe lanes.

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Dedicated Account Manager

You'll get your own dedicated account manager who's available to you at all times.

3 Year Warranty

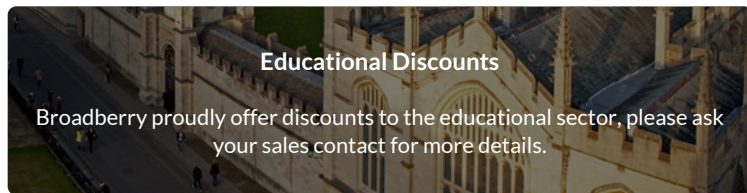
We take customer service very seriously, that's why we offer 3 years warranty as standard.

Industry Leading Support

Should you need any help, our technical support department are always here to help.

Best Price Guarantee

We're so confident in our great value server and storage solutions, we offer a guarantee!



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