

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 "PDBC57735", or simply reply to this email.

What Now?

- 1. Call 020 8997 6000
- 2. Ask For Bill Carless
- 3. Quote Reference PDBC57735

RRP: £15,514.44

Ex. VAT

£12,411.55















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

Processor 2x Intel Xeon Bronze 3204 Processor - 6 Cores, 1.90GHz, 8.25MB Cache,(85Watt) Memory 12x 8GB 2933MHz DDR4 ECC Registered DIMM Module Hard Drive M.2 Internal Solid State Drives 2000GB Samsung 970 EVO NVME M.2 SSD Nvidia Tesla and AMD FirePro GPU Compute Cards 4x NVIDIA RTX 3090 Blower Edition GPU Card, Gen4, 24GB GDDR6, 10496 Cores Total Price: £12,411.55 Lease From: £262.50 per month over 5 years, or £405.61 over 3 years.	Supermicro SuperServers	Supermicro SuperServer 1029GQ-TRT SYS-1029GQ-TRT
Hard Drive M.2 Internal Solid State Drives 2000GB Samsung 970 EVO NVME M.2 SSD Nvidia Tesla and AMD FirePro GPU Compute Cards 4x NVIDIA RTX 3090 Blower Edition GPU Card, Gen4, 24GB GDDR6, 10496 Cores Total Price: £12,411.55	Processor	2x Intel Xeon Bronze 3204 Processor - 6 Cores, 1.90GHz, 8.25MB Cache,(85Watt)
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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,Powe
Number of fans	9 fan(s)
On/off switch	Υ
Product colour	Black
RoHS compliance	Υ
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	Υ
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	Υ
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	Υ
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	Υ
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	Υ
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 Bronze 3204 Processor - 6 Cores, 1.90GHz, 8.25MB Cache, (85Watt)

Features	
Embedded options available	Ν
Execute Disable Bit	Υ
Maximum number of PCI Express lanes	48
Scalability	2S
Memory	
ECC supported by processor	Υ
Operational conditions	
Tcase	77 °C
Processor	
Processor cache	8.25 MB

Processor cores	6
Processor model	3204
Processor threads	6
Processor special features	
AVX-512 Fused Multiply-Add (FMA) units	1
Enhanced Intel SpeedStep Technology	Υ
Intel 64	Υ
Intel Trusted Execution Technology	Υ
Intel TSX-NI	Υ
Intel Turbo Boost Max Technology 3.0	N

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® Hyper Threading Technology (Intel® H7 Technology	
Intel® Speed Shift Technology	y Y
Intel® Turbo Boost Technology	y N
Technical details	
Memory speed (max	2133 MHz
Number of UPI links	s 2

Intel Virtualization Technology (VT-x) Y

12x 8GB 2933MHz DDR4 ECC Registered DIMM Module

Features		
	Buffered memory type	Registered (buffered)
	CAS latency	21
	ECC	Υ
	Internal memory	8 GB
	Internal memory type	DDR4
	JEDEC standard	Υ
	Memory clock speed	2933 MHz
2000GB Samsung 970 EVO NVME M.2 SSD		

Memory form factor	288-pin DIMM
Memory voltage	1.2 V
Module configuration	1024M x 72
Programming power voltage (VPP)	2.5 V
Refresh row cycle time	350 ns
RoHS compliance	Υ
Row active time	32 ns

Row cycle time	45.75 ns
Operational conditions	
Operating temperature (T-T)	0-85°C
Storage temperature (T-T)	-55 - 100 °C
Weight & dimensions	
Height	31.2 mm
Width	133.3 mm

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Features	
Controller type	Samsung Phoenix
DevSlp (device sleep) support	Υ
Hardware encryption	Υ
Interface	PCI Express 3.0
Mean time between failures (MTBF)	1500000 h
Memory type	V-NAND MLC
NVMe	Υ
NVMe version	1.3
PCI Express interface data lanes	x4
Random read (4KB)	620000 IOPS
Random write (4KB)	560000 IOPS

Read speed	3500 MB/s
S.M.A.R.T. support	Υ
Security algorithms	256-bit AES
SSD capacity	2000 GB
SSD form factor	M.2
TRIM support	Υ
Write speed	3300 MB/s
Operational conditions	
Operating temperature (T-T)	0 - 70 °C
Packaging data	
Bundled software	Magician Software for SSD management

Power	
Operating voltage	3.3 V
Power consumption (average)	6 W
Power consumption (idle)	0.03 W
Power consumption (sleep)	0.005 W
Power consumption (standby)	0.03 W
Weight & dimensions	
Depth	22.1 mm
Height	2.38 mm
Weight	8 g
Width	80.2 mm

4x NVIDIA RTX 3090 Blower Edition GPU Card, Gen4, 24GB GDDR6, 10496 Cores

Design	
Cooling type	Active
Number of fans	1 fan(s)
Product colour	Black
Memory	
Discrete graphics adapter memory	24 GB
Graphics adapter memory type	GDDR6X
Memory bandwidth (max)	936 GB/s
Memory bus	384 bit
Memory clock speed	19500 MHz
Packaging data	
Package type	Box
User guide	Υ
Performance	
DirectX version	12.0

Dual Link DVI	N
HDCP	Υ
NVIDIA G-SYNC	Υ
OpenGL version	4.6
TV tuner integrated	N
Ports & interfaces	
DisplayPort version	1.4a
DisplayPorts quantity	2
HDMI ports quantity	2
HDMI version	2.1
Interface type	PCI Express x16 4.0
Power	
Minimum system power supply	750 W
Supplementary power connectors	2x 8-pin

Υ
10496
N
GeForce RTX 3090
NVIDIA
4
7680 x 4320 pixels
2-Way NVLink
1695 MHz
267 mm
40 mm
111 g







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CyberServe Xeon SP2-1029GQ-TRT GPU Server features



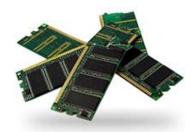
3 Years Warranty as Standard

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

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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^{\otimes} 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!

Educational Discounts Broadberry proudly offer discounts to the educational sector, please ask your sales contact for more details.





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