

S5BV TC

Let Hyperscalers meet your bespoke requirements.

Start customizing your S5BV TC today.

- ✓ Up to 4 x FHFL GPU in 2U
- ✓ Compact and Optimized 2U Accelerator Server Architecture
- ✓ 2x 100Gb/s High bandwidth Networking option to scale out performance efficiently
- ✓ Quick deployment and Maintenance

About Hyperscalers

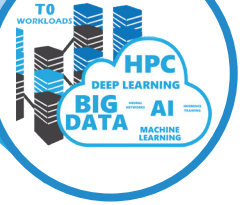
World's First Open OEM

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Free Of Proprietary Hardware Lock-Ins

US Stock Full US Warranty

100% Channel Distributor Metro Delivery 1-4 Days

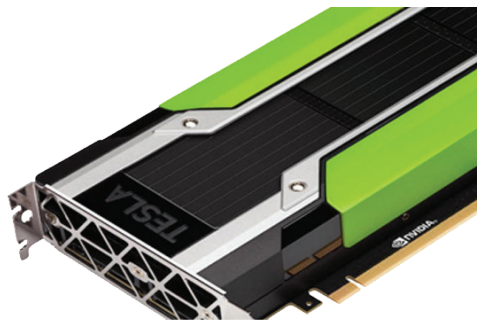


Accelerating Supercomputing Performance

As an optimized parallel computing architecture, the S5BV TC -2U breaks hardware configuration limitations in a 2U dual-socket system by supporting up to four accelerator cards, 7.68TB (512G*12 DCPMM) memory storage + 1.54TB(128G*12 RDIMM/LRDIMM) RAM, and eight (8) large form factor storage bays making the S5BV TC the perfect versatile platform for parallel computing-intensive applications such as VDI HPC and AI Deep Learning



7.68TB (512G*12 DCPMM) memory storage + 1.54TB (128G*12 RDIMM/LRDIMM) RAM



Triumph Over Thermal and Mechanical Challenges

The S5BV TC triumphs over thermal and mechanical challenges despite its record compute, accelerator, and storage resources in a 2RU footprint including.

- ✓ Dual Intel® Xeon® Scalable Processors of the highest thermal design power (TDP).
- ✓ Faster socket interconnect, 1.5x memory bandwidth and 2xFLOPs peak performance capability.
- ✓ Up to 112 vCPU per server and 3.9 x higher virtualized throughput compared to previous platforms based on the Intel® Xeon® Processor E5 family.
- ✓ Support 4 x 300Watt dual-width accelerator cards and 24 x DIMM slots gives the S5BC TC no limitations when it comes to deploying GPU solutions.
- ✓ Support for up to 128 concurrent VDI users.
- ✓ Increase local storage space for rendering applications with support for 8 x 3.5" bays.
- ✓ Eliminate IO latency to expedite deep learning model training with 4 x U.2 NVMe drives. Easily scale out performance with 2 x 100Gb/s InfiniBand network options.



S5BV TC Specification

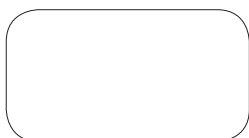
Processor Type	Intel®Xeon® Processor Scalable Family
Max. TDP Support	165W
Number of Processors	(2) per node
Internal Interconnect	9.6/10.4 GT/s
Form Factor	2U
W x H x D (inch)	17.48 x 3.44 x 31.1
W x H x D (mm)	444 x 87.5 x 790
Chipset	Intel® C621 Intel® C624
Default Configuration	2.5" Hot-plug 3.5" Hot-plug
Storage	Default Configuration: 2.5" Hot-plug SKU - #1 : (24) 2.5" hot-plug SATA/SAS HDD/SSD SKU - #2 : (12) 3.5"/2.5" hot-plug SATA/SAS HDD/SSD
Total Slots	(16) slots per node
Capacity	Up to 2TB (128Gx16) of memory for RDIMM/ LRDIMM per node Up to 3.58TB (512G*4 DCPMM + 128G*12 RDIMM/LRDIMM) in specific condition
Memory Type	2666 MHz DDR4 RDIMM 2933Mhz DDR4 RDIMM/LRDIMM Up to (4) 2666Mhz Intel® Optane™ DC Persistent Memory (DCPMM) per node
Memory Size	64GB, 32GB, 16GB, 8GB RDIMM 16G, 32G, 64G 2933Mhz RDIMM/LRDIMM '128G, 256G, 512G Intel DCPMM (Refer to CCL)
Default Configuration	(1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x8 for SAS Mezz (1) PCIe Gen3 x16 for OCP Mezz (1) PCIe Gen3 x2 for 2280/22110 M.2
Optional NIC	Quanta Intel® X527 10G SFP+ dual/quad-port OCP PHY mezzanine or Quanta Intel® X557 10G RJ45 dual/quad-port OCP PHY mezzanine or Quanta Intel® I357 1G RJ45 dual/quad-port OCP PHY mezzanine or (more options refer to the CCL)

Front I/O	(1) USB 2.0 per node
Onboard	Intel® C621 or C624: 4x sSATA 6Gb/s ports 2x SATA 6Gb/s ports SATA RAID 0, 1, 10
Optional Controller	Quanta Broadcom® 3008A-IR 12Gb/s SAS mezzanine, RAID 0,1,10 Quanta Broadcom® 3008A-IR 12Gb/s SAS mezzanine, RAID 0,1,10 Quanta Broadcom® 3108A 12Gb/s RAID mezzanine, RAID 0, 1, 5, 10, 50, 60. (Coming soon)
Power Supply	Option 1: (2) High efficiency hot-plug 1600W PSU, 80 Plus Platinum Option 2: (2) High efficiency hot-plug 2200W PSU, 80 Plus Platinum
Onboard Storage	Option 1: (1) PCIe M.2 per node Option 2: (1) SATA M.2 per node
Fan	(4) system fans
Video	Integrated ASPEED AST2500 8MB DDR4 video memory
System Management	Redfish v1.1 IPMI v2.0 Compliant, on board "KVM over IP" support QCT System Manager (QSM) v1.8 (Optional)
Rear I/O	(2) USB 3.0 ports per node (1) VGA port per node (1) Micro USB port per node (1) 10/100/1000 RJ45 management port per node
Operating Environment	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: -40°C to 70°C (-40°F to 158°F) Operating relative humidity: 20% to 85%RH. Non-operating relative humidity: 10% to 95%RH
TPM	TPM 2.0
Weight (Max. Configuration)	39.3 kg / (86.64 lb)

Qualified Operating Systems



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About Hyperscalers

Hyperscalers is the world's first open Original Equipment Manufacturer offering proprietary-free alternative to traditional Tier 1 OEM vendors.

Hereto to solve Information technology's complexity, Hyperscalers developed the IP Appliance Design Process. Which is basically a process along with a utility, being the Appliance Optimizer Utility, which together, assists service providers 'productize' delivery of their Digital-IP.

Technology Partners



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