

“ “ The World's Densest hyperconverged multi-node Server ” ”



S5Z | T43Z-2U

The Power of Hyper Convergence

Let Hyperscalers meet your bespoke requirements

Start customizing your S5Z today!

- ✓ 4 independent PCIe Gen4 server nodes / sleds in 2RU
- ✓ 8 x Intel Ice Lake CPU up to 40 cores each that's a total of 320 cores in 2RU
- ✓ 16 x U.2 NVMe SSD and 8 x M.2 NVMe SSD
- ✓ 12 x Network Interface cards up to 200G
- ✓ 8 x GPU such as NVIDIA A500 and T4

Secure Architecture with Ultimate System Performance

- 3rd Gen Intel® Xeon Scalable Processor Ice Lake dual socket platform
- Up to 3x UPI at 11.2 GT/sec CPU interconnect speed
- Advance system cooling support up to 270W CPU TDP per socket
- Memory capacity up to 8TB with 8 channel DDR4 memory and 12TB with 2nd Gen Intel® Optane™ PMem 200 (DCPM) Series Barlow Pass

Qualified Operating Systems

- Ubuntu Server 20.04 LTS
- Red Hat Enterprise Linux 8.2 x86_64 including KVM
- Microsoft Windows Server 2016 x86_64 including Hyper-V
- Microsoft Windows Server 2019 x86_64 including Hyper-V
- Red Hat Enterprise Linux 8.3 x86_64 including KVM
- Red Hat Enterprise Linux 7.9 x86_64 including KVM
- VMware vSphere 7.0 UI
- VMware vSphere 7.0 U2
- Ubuntu Server 20.04.1 LTS
- Microsoft Windows Server 2022

Capability, Scalability and Flexibility in 1RU

- Industry most expansions in 1U system with up to 3x PCIe Gen 4 slots, supporting 200GbE networking bandwidth in x16 PCIe Gen 4 slots
- Flexible I/O options with a variety of SAS mezzanine and OCP mezzanine options for diverse configurations
- Vast variety of storage configurations, supporting All Flash, Tiered and Hybrid SKUs
- 2x onboard PCIe M.2 2230 slot

About Hyperscalers

 World's First Open OEM

 Free Of Proprietary Software Lock-Ins

 Free Of Proprietary Hardware Lock-Ins

 US Stock  Full US Warranty

 100% Channel Distributor  Metro Delivery 1-4 Days

Ease of Deployment with Great Serviceability

- Upgrade with Higher Computing Performance
- Tool-less, hot-swap designs for drive trays, riser brackets and fan modules
- Auto back-up BMC event logs in microSD without opening chassis
- Easy service with OCP3.0 pull-tab & ejector without opening chassis

Enhanced Security

Chassis intrusion triggered when top cover removed while AC/DC on, to alert and log any possible breach to your servers



Seamless Management

- Secure and dynamic data administration of data center resources with Orqestra (QCT System Manager)
- Monitor up to 5000 devices per Orqestra module



S5Z | T43Z-2U Specification

Processor	Processor Type: Intel® Xeon® Processor Scalable Family Max. TDP Support: 270W Number of Processors: (2) per node	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
Form Factor	2U	Onboard Storage	Option 1: (2) PCIe M.2 per node Option 2: (2) SATA M.2 per node
Dimensions	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	Fan	(4) system fans
Chipset	Intel® C621 Intel® C624	Video	Integrated ASPEED AST2500 8MB DDR4 video memory
Storage	Default Configuration: 2.5" Hot-plug Options: (16) 2.5" hot-plug U.2 NVMe + (8) M.2 NVMe	System Magement	Redfish v1.1 IPMI v2.0 Compliant, on board "KVM over IP" support QCT System Manager (QSM) v1.8 (Optional)
Memory	Total Slots: (16) slots per node Capacity: Up to 4TB RDIMM Up to 6TB (DIMM + DCPMM /PMEM) in specific condition Memory Type: 3200 MHz DDR4 RDIMM Memory Size: (256GB is coming soon) 16G, 32G, 64G 2933Mhz /3200 MHz RDIMM/LRDIMM 128G, 256G, 512G Intel DCPMM	Rear I/O	2x USB 3.0 ports 1x VGA port 1x Micro USB serial Port 1x 10/100/1000 RJ45 management port
Expansion Slot	Default Configuration: (2) PCIe Gen4 x16 HHHHL slots, (1) OCP 3.0 PCIe Gen4 x16 SFF mezzanine slot	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
Network Controller	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)	TPM	TPM 2.0
Front I/O	(1) USB 2.0 per node	Weight (Max. Configuration)	31.8 kg / (69.96 lb)
Storage Controller	Intel® C621 or C624: 4x SATA 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)		

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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



Hyperscalers Australia Head Quaters

10 of 65 Tennant Street Fyshwick
ACT 2609 Australia
P +61 1300 113 112
E info@hyperscalers.com

Operating out of USA, India, EU
www.hyperscalers.com