Balanced Architecture with built-in acceleration and advanced security

S5X TC

Let Hyperscalers meet your bespoke requirements!

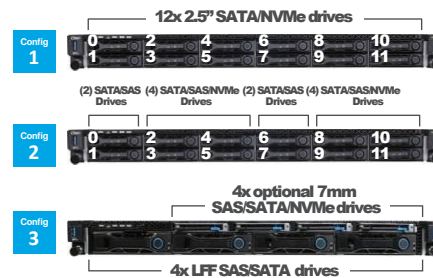**Start customizing your S5X TC today!**

- ✓ Intel Xeon 3nd Generation Scalable Processor Ice Lake empowered

- ✓ PCIe Gen 4 platform ready

- ✓ Support up to 200GbE with PCIe x16 networking bandwidth

- ✓ Upgrade data protection with Intel SGX, Intel Crypto Acceleration and PRF (optional)

- ✓ All acceleration optimized, up to 3x Tesla T4 GPU support in 1U system

- ✓ Enhanced serviceability with tool-less, hot-swap designs

About Hyperscalers

World's First Open OEM

Free Of Propritery Software Lock-Ins

Free Of Propritery Hardware Lock-Ins

US Stock

Full US Warranty

100% Channel Distributor

Metro Dilivery 1-4 Days

Ultimate Compute Performance and Security Architecture

- 3rd Gen Intel Xeon Scalable Processor Ice Lake based 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 Series Barlow Pass.

- Up to 3x Single Width Tesla T4 GPU in 1U system.

- System optimized for cloud, enterprise, AI, HPC, network, security and IoT workloads.

Flexible and Scalable Configurations

Config 1 — 12x 2.5" SATA/NVMe drives — 0 1 2 3 4 5 6 7 8 9 10 11

Config 2 — (2) SATA/SAS Drives (4) SATA/SAS/NVMe Drives (2) SATA/SAS Drives (4) SATA/SAS/NVMe Drives — 0 1 2 3 4 5 6 7 8 9 10 11

Config 3 — 4x optional 7mm SAS/SATA/NVMe drives / 4x LFF SAS/SATA drives
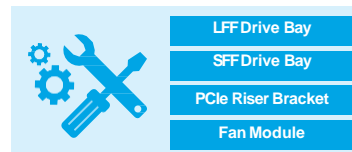
- Industry most expansions in 1U system with up to 5x PCIe Gen 4 slots, supporting 200GbE networking bandwidth in x16 PCIe Gen 4 slots.

- 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.

Enhanced Security

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

Quick Deployment with Great Serviceability

| LFF Drive Bay |
| SFF Drive Bay |
| PCIe Riser Bracket |
| Fan Module |

- 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.

Easy Management

- Secure and dynamic data administration of data center resources with Orqestra (QCT System Manager), featuring redfish v1.8.x.

- Monitor up to 5000 devices per Orqestra module.

S5X | D53X–1U Specifications

Processor	**Processor Type:** 3rd gen Intel® Xeon Scalable processor
	Max. TDP Support: 270W
	Number of Processors: (2) per node
	Internal Interconnect: 11.2GT/s
	L3 Cache: Up to 57MB
Form Factor	1U Rackmount
Dimensions	**W x H x D (inch):** 17.3 x 1.7 x 30.7
	W x H x D (mm): 440 x 43.2 x 780
Chipset	Intel® C621A Series
Storage	Default Configuration: 2.5"/3.5"Hot-plug, SATA/ SAS/ NVME support
	SKU - #1 : [All Flash SKU]: (12) 2.5" hot-plug SATA/ NVMe drives
	SKU - #2 : [SFF Tiered SKU]; (4) 2.5" hot-plug SATA/SAS drives + (8) 2.5" hot-plug NVMe/SATA/SAS drives
	SKU - #3: [Hybrid SKU]; (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 7mm NVMe/SATA/SAS drives (optional)
Memory	Total Slots: 32
	Capacity: Up to 8TB DIMM, Up to 12TB DIMM+PMem (200 series)
	Memory Type: 2933/3200 MHz DDR4 RDIMM/LRDIMM Intel® Optane™ PMem 200 series (BPS) 128, 256, 512GB supported on selected CPU SKUs
	Memory Size: 16G, 32G, 64G, 128G RDIMM/LRDIMM/3DS DIMM
Expansion Slot	*SKU - #1 :*
	(1) PCIe 4.0 x8 OCP 3.0 mezzanine slot SFF (1) PCIe 4.0 x8 Internal SAS mezzanine slot (2) PCIe 4.0 x16 FHHL
	SKU - #2 :
	(1) PCIe 4.0 x8 OCP 3.0 mezzanine slot SFF (1) PCIe 4.0 x8 Internal SAS mezzanine slot (3) PCIe 4.0 x16 HHHL
Network Controller	LOM: Dedicated (1) GbE management port
	Optional NIC: Please refer to our Compatible Component List for more information
Front I/O	Front I/O: (2) USB 3.0, (1) PWR BTN/LED, (1) ID BTN/LED, (1) Reset BTN, (1) Status LED, (1) PFR LED

Storage Controller	Onboard: Intel® 621A 14x SATA 3 6Gb/s ports SATA RAID 0, 1
	Optional Controller: Quanta LSI®PCIe 4.0 3816 12Gb/s SAS mezzanine Quanta LSI®PCIe 4.0 3916 12Gb/s SAS mezzanine (RAID 0,1,5,6,10,50,60) Intel® VROC Upgrade Module for PCIe SSD (Please refer to the Compatible Component List for more options)
Power Supply	1+1 High efficiency redundant hot-plug Platinum/Titanium 800W/1200W/1600W AC PSU, Gold 1200W/1600W -48V DC PSU
Onboard Storage	Onboard Storage: (2) 2230 PCIe M.2 onboard for booting OS
Fan	(8) Dual rotor fans (15+1 redundant)
System Management	Redfish v1.9 IPMI v2.0 compliant, onboard "KVM over IP" support Orqestra (QCT System Manager) (Optional)
Rear I/O	(2) USB 3.0, (1) RS232 serial port, (1) VGA port, (1) Micro USB (COM port), (1) ID LED, (1) PFR LED, (1) MicroSD
Operating Environment	Operating temperature: 5°C to 40°C Non-operating temperature: -40°C to 70°C Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 10% to 95%RH
TPM	TPM 1.2/2.0 SPI module

Authorised Hyperscalers Partner

About Hyperscalers

Hyperscalers is the world's first open Original Equipment Manufacturer offering proprietary-free alterative 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

Quanta Computer
QCT
intel® XEON® inside™
Western Digital.
SAMSUNG

Hyperscalers Australia Head Quaters

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

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