Solving Information Technology's **complexity**

hyperscalers.com

S5BQ TC

Let Hyperscalers meet your bespoke requirements.

Start customizing your S5BQ TC today.

- Intel Xeon 2nd Generation Processors
- Up to 6 x 100G ports
- Flexible 2.5" and 3.5" options SATA or SAS SSD and NVMe up to 840K IOPS each (4k read)
- Quick Deployment and Maintenance
- Optional MicroSD card to record system health logs without opening chassis

About Hyperscalers

- **World's First Open OEM**
- **Free Of Propriety Software Lock-Ins**
- **Free Of Propriety Hardware Lock-Ins**

US Stock | Full US Warranty

100% Channel Distributor | Metro Dilivery 1-4 Days

"Ultimate Flexibility"

Unleashing Computing Performance

Faster socket interconnects, 1.5x memory bandwidth and 2x FLOPs peak performance capability with Intel® Xeon® Processor Scalable Family.

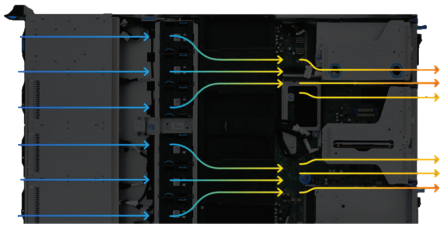
Up to 112 vCPUs per server and 3.9x higher virtualized throughput compared to previous platforms based on the Intel Xeon Processor E5.

Sophisticated Power and Thermal Design to Avoid Unnecessary OPEX

Minimised power consumption during system idle mode.

Support for the industry's most efficient 80 Plus Titanium PSU options

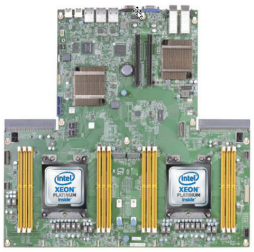
Precise power and airflow distribution to ensure performance stability under all levels of system loading.



Precise power and airflow distribution

2X
FLOPs Capability

1.5X
Memory Bandwidth



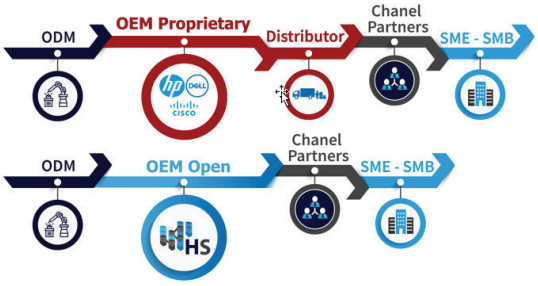
Flexible and Scalable Configurations for Hyperconverged Datacenters

Up to 10 PCIe expansions slots in a 2U chassis

Flexible I/O options, including a variety of SAS Mezz and OCP NIC/PHY Mezz options, so users avoid the extra expense of unnecessary LOM or RAID controllers

Multiple storage configurations, including optional NVMe tier, HBA pass-through, Legacy-MegaRAID with cache backup solutions tailored for diversified software-defined workloads.

Optional SATADOM or M.2 SSD for OS installation.



intel OPTANE DC PERSISTENT MEMORY

Up to 3.58TB
*(512G*4 DCPMM + 128G*12 RDIMM/LRDIMM)*

S5BQ TC Specification

Processor Type	Intel®Xeon® Processor Scalable Family
Max. TDP Support	205W (Refer to CCL)
No of Processors	2 Processors
Internal Interconnect	9.6/10.4 GT/s
Form Factor	2U
WxHxD(inch)	17.3 x 3.4 x 30.7
WxHxD(mm)	440 x 87.5 x 780
Chipset	Intel® C621 Intel® C624
Default Configuration	NVMe support 2.5" Hot-plug 3.5" Hot-plug
SKU - #1	[12x LFF SATA/SAS SKU]: Front Storage: (12) 3.5"/2.5" hot-plug SATA/SAS Rear Storage: (2) 2.5" hot-plug NVMe/SATA/SAS (optional)
SKU - #2	[12x LFF Tiered SKU]: Front Storage: (8) 3.5"/2.5" hot-plug SATA/SAS + (4) 2.5" hot-plug NVMe/SATA/SAS SSD Rear Storage: (2) 2.5" hot-plug SATA/SAS (optional)
SKU - #3	[24x SFF PtP SKU]: Front Storage: (16) 2.5" hot-plug SATA/SAS + (8) 2.5" hot-plug NVMe SSD Rear Storage: (2) 2.5" hot-plug SATA (optional)
SKU - #4	[24x SFF SAS3224 Paddle SKU]: Front Storage: (24) 2.5" hot-plug SATA/SAS w/ SAS 3224 Rear Storage: (2) 2.5" hot-plug NVMe/SATA (optional)
SKU - #5	[24x SFF Expander SKU]: Option 1: Front Storage: (24) 2.5" hot-plug SATA/SAS Rear Storage: (2) 2.5" hot-plug NVMe (optional) Option 2: Front Storage: (24) 2.5" hot-plug SATA/SAS Rear Storage: (2) 2.5" hot-plug SATA/SAS (optional)
Total Slots	24
Capacity	Up to 3TB (128Gx24) of memory for RDIMM/LRDIMM Up to 7.68TB (512G*12 DCPMM + 128G*12 RDIMM/LRDIMM)
Memory Type	2666 MHz DDR4 RDIMM 2933Mhz DDR4 RDIMM/LRDIMM Up to (12) 2666Mhz Intel® Optane™ DC Persistent Memory (DCPMM)
Memory Size	64GB, 32GB, 16GB, 8GB RDIMM 16G, 32G, 64G 2933Mhz RDIMM/LRDIMM 128G, 256G, 512G Intel DCPMM (Refer to CCL)
SKU - #1	[12x LFF SATA/SAS SKU] (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2
SKU - #2	[12x LFF Tiered SKU] (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x 8 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2
SKU - #3	[24x SFF PtP SKU] (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 LP MD-2 (must be with SAS add-on card)
SKU - #4	[24x SFF SAS3224 Paddle SKU] (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2
SKU - #5	[24x SFF Expander SKU] Option 1: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2 Option 2: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (3) PCIe Gen3 x 8 LP MD-2 or (1) PCIe Gen3 x16 + x8 LP MD-2
LOM	Dedicated (1) GbE management port
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	Power/ID/Reset Buttons Power/ID/Status LEDs (2) USB ports (1) VGA port (Display Priority: First; one device one time)
Onboard	Intel® 621/ 624: 14x SATA 6Gb/s ports SATA RAID 0, 1, 10
Optional Controller	Quanta LSI® 3216 12Gb/s SAS mezzanine Quanta LSI® 3516 12Gb/s SAS mezzanine (RAID 0,1,5,6,10,50,60) Intel® VROC Upgrade Module for PCIe SSD (2) PCIe M.2 support with M.2 adapter for boot optimization (option) (2) SATA M.2 support with M.2 adapter for boot optimization (option)
Power Supply	1+1 High efficiency redundant hot-plug Platinum/Titanium 800W/1200W PSU (detailed PSU options please refer to "ordering info" or "CCL")
Onboard Storage	(2) SATADOM (option)
Fan	(6) dual rotor fans (11+1 redundant)
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 (1) VGA port (Display Priority: Second; one device one time) (1) RS232 serial port (1) GbE RJ45 management port (1) ID LED (1) MicroSD slot
Operating Environment	Operating temperature: 5°C to 40°C (can support 45°C under certain situation) 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
Weight (Max. Configuration)	35KG
Qualified Operating Systems	Red Hat KVM, RED HAT ENTERPRISE LINUX, VMware vSphere 6.5 ESXi 6.5, Ubuntu 16.04 Server, Windows Server 2012, Windows Server 2016, Microsoft Hyper-v

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

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