

## S5B TC

Let Hyperscalers  
meet your bespoke  
requirements.

Start customizing your  
S5L TC today.

- ✓ Intel Xeon 2<sup>nd</sup> Generation Processors
- ✓ Flexible and Scalable I/O Options
- ✓ Up to 12 x U.2 NVMe
- ✓ Quick Deployment and Maintenance
- ✓ Optional MicroSD card to record system health logs without opening chassis

## About Hyperscalers

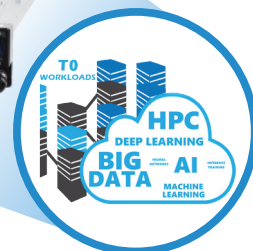
 **World's First Open OEM**

 **Free Of Proprietary Software Lock-Ins**

 **Free Of Proprietary Hardware Lock-Ins**

 **US Stock**  **Full US Warranty**

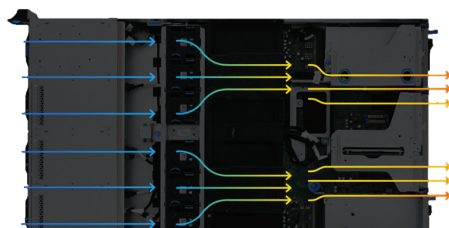
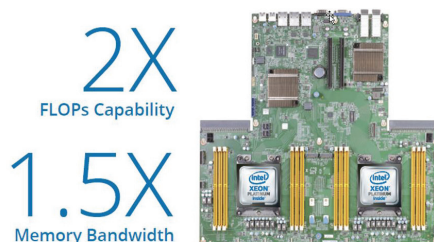
 **100% Channel Distributor**  **Metro Delivery 1-4 Days**



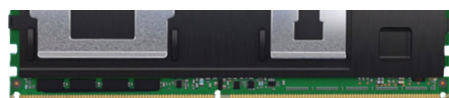
## Unleashing Computing Performance

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



Precise power and airflow distribution



Up to 7.68TB  
(512G\*12 DCPMM +  
128G\*12 RDIMM/LRDIMM)

## Flexible and Scalable Configurations for Hyperconverged Datacenters

Up to 5 PCIe expansions slots in a 1U 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

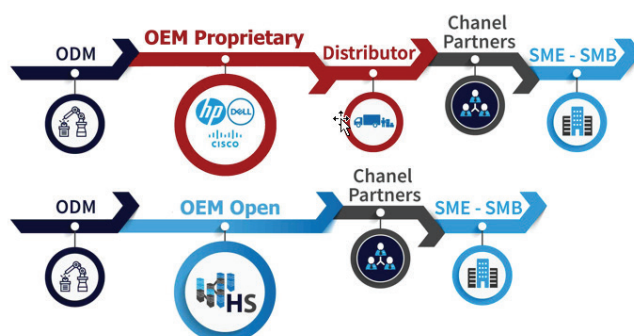
Three different kinds of storage configurations, including LFF+SSD Hybrid, SFF (SATA+U.2) Tiered and the industry's first 12 x U.2 All-Flash, tailored for diversified software-defined workloads. Optional SATADOM or M.2 SSD for OS installation.

## 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.

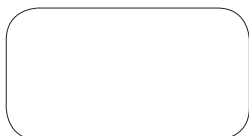


## S5B TC Specification

<b>Processor Type</b>	Intel®Xeon® Processor Scalable Family (refer to the CCL)
<b>Max. TDP Support</b>	165W
<b>No of Processors</b>	2 Processors
<b>Internal Interconnect</b>	9.6/10.4 GT/s
<b>Form Factor</b>	1U
<b>W x H x D (inch)</b>	17.3 x 1.7 x 30.7
<b>W x H x D (mm)</b>	440 x 43.2 x 780
<b>Chipset</b>	Intel® C621 Intel® C624
<b>Default Configuration</b>	NVMe support 2.5" Hot-plug 3.5" Hot-plug
<b>SKU - #1</b>	[All Flash SKU]: (12) 2.5" hot-plug SATA/ NVMe SSD
<b>SKU - #2</b>	[SFF Tiered SKU]: (8) 2.5" hot-plug SATA/SAS drives + (4) 2.5" hot-plug NVMe/SATA/SAS drives
<b>SKU - #3</b>	[Hybrid SKU]: Option 1 (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 9mm NVMe/ SATA/SAS drives (optional) Option 2 (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 9mm SATA/ SAS drives (optional)
<b>Total Slots</b>	24
<b>Capacity</b>	Up to 3TB (128Gx24) of memory for RDIMM/LRDIMM Up to 7.68TB (512G*12 DCPMM + 128G*12 RDIMM/LRDIMM)
<b>Memory Type</b>	2666 MHz DDR4 RDIMM 2933Mhz DDR4 RDIMM/LRDIMM Up to (12) 2666Mhz Intel® Optane™ DC Persistent Memory (DCPMM)
<b>Memory Size</b>	64GB, 32GB, 16GB, 8GB RDIMM 16G, 32G, 64G 2933Mhz RDIMM/LRDIMM 128G, 256G, 512G Intel DCPMM (Refer to CCL)
<b>SKU - #1</b>	[All Flash SKU] (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x8 FHHL
<b>SKU - #2</b>	Option 1 (3PCIe) (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x 8 LP MD-2 Option 2 (2PCIe) (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 (1) PCIe Gen3 x16 LP MD-2

<b>SKU - #3</b>	Option 1 (3PCIe) (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x 8 LP MD-2 Option 2 (2PCIe) (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 LP MD-2
<b>LOM</b>	Dedicated (1) GbE management port
<b>Optional NIC</b>	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)
<b>Front I/O</b>	(2) USB 3.0 ports Power/ID/Reset Buttons Power/ID/Status LEDs
<b>Onboard</b>	Intel® 621/ 624: 14x SATA 6Gb/s ports SATA RAID 0, 1, 10
<b>Optional Controller</b>	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)
<b>Power Supply</b>	(1+1) High efficiency redundant hot-plug Platinum/ Titanium 500W/800W* PSU (detailed PSU options please refer to "ordering info" or "CCL")
<b>Onboard Storage</b>	(2) SATADOM (optionl)
<b>Fan</b>	(8) dual rotor fans (15+1 redundant)
<b>Video</b>	Integrated ASPEED AST2500 8MB DDR4 video memory
<b>System Management</b>	Redfish v1.1 IPMI v2.0 Compliant, on board "KVM over IP" support QCT System Manager (QSM) v1.8 (Optional)
<b>Rear I/O</b>	(2) USB 3.0 ports (1) VGA port (1) RS232 serial port (1) GbE RJ45 management port (1) ID LED (1) MicroSD slot
<b>Operating Environment</b>	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: -40°C to 65°C (-40°F to 149°F) Operating relative humidity: 50% to 85%RH Non-operating relative humidity: 20% to 90%RH
<b>TPM</b>	TPM 1.2/2.0 SPI module
<b>Weight (Max. Configuration)</b>	31KG

Authorised  
Hyperscalers  
Partner



## 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



Western  
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SAMSUNG

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