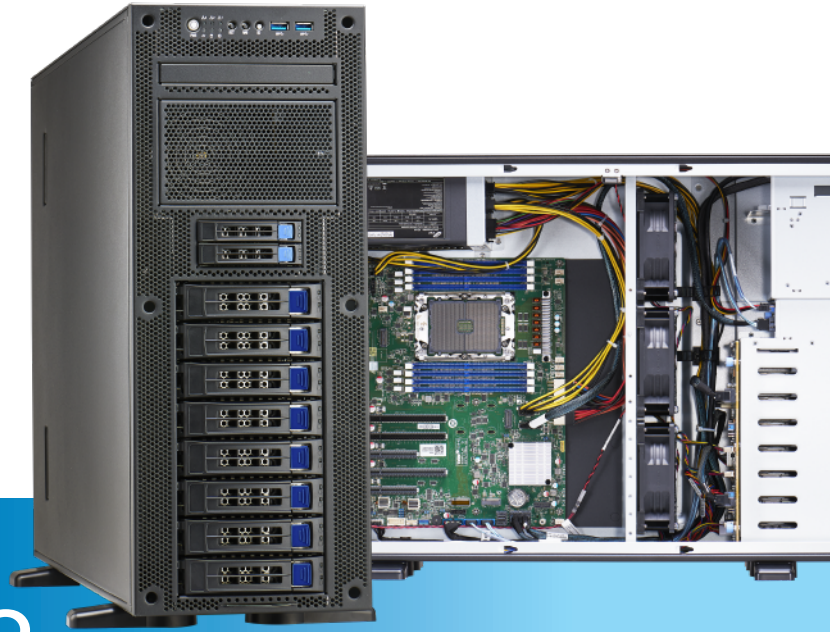


DESKSIDE INTEL GPU SERVER



Thunder HX FT65T-B5642

B5642F65TV8E2H-G / B5642F65TV8E2H-2T-N



Front View



- (2) 2.5" Hot-Swap NVMe HDD/SSDs
- (8) 3.5/2.5" Hot-swap HDD/SSDs

Back View



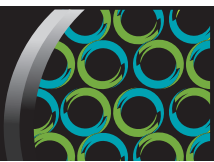
- 2,000W ATX PSU, 80+ Platinum

4U pedestal 1S workstation platform support high performance flash NVME

- Single LGA4189 socket
- (1) 3rd Gen Intel® Xeon® Scalable Processors
- (8) DDR4 DIMM slots, Support up to 1,024GB RDIMM/ 2,048GB LRDIMM/ 2,048GB RDIMM 3DS/LRDIMM 3DS DDR4 3200 memory
- (2) 2.5" Hot-Swap NVMe HDD/SSDs / (8) 3.5/2.5" Hot-swap HDD/SSDs
- (1) PCIe Gen.4 x8 slot (#4 w/x4 link) / (1) PCIe Gen.4 x8 slot (#2 via MUX) / (1) PCIe Gen.4 x16 slot (#3 w/x8 link) / (2) PCIe Gen.4 x16 slots (#5,#6)
- (1) GbE + (1) dedicated GbE for IPMI or (2) 10GbE + (1) GbE + (1) dedicated GbE for IPMI (-2T sku)
- Onboard BMC w/ IPMI and iKVM support
- 2,000W ATX PSU, 80+ Platinum

Summary Table

SKU	Motherboard	Storage
B5642F65TV8E2H-2T-N	S5642AGM3NRE-2T	(2) 2.5" Hot-Swap NVMe HDD/SSDs / (8) 3.5/2.5" Hot-swap HDD/SSDs
B5642F65TV8E2H-G	S5642AGMNRE	(2) 2.5" Hot-Swap NVMe HDD/SSDs / (8) 3.5/2.5" Hot-swap HDD/SSDs



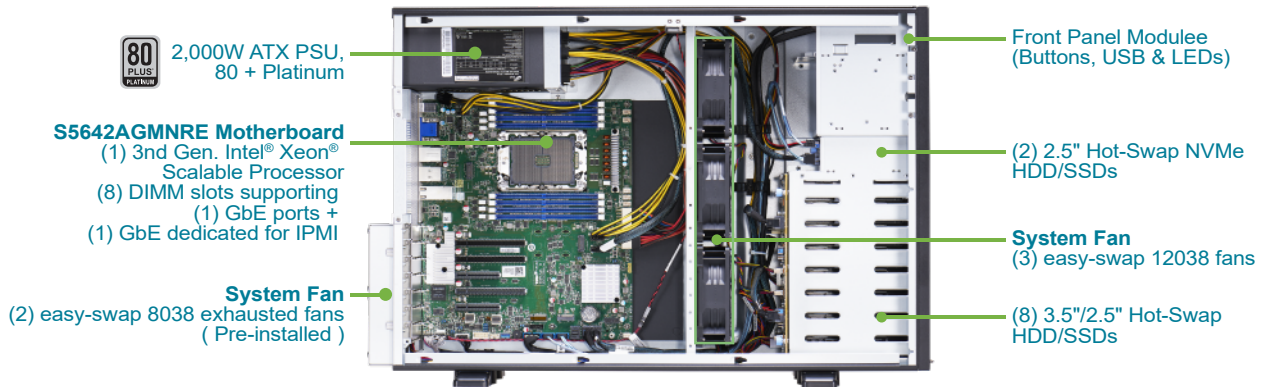
Transport HX FT65T-B5642

B5642F65TV8E2H-G

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Specifications

Top View



System	Form Factor	4U Tower
	Chassis Name	FT65T
	Dimension (D x W x H)	25.5" x 16.8" x 6.9" (650 x 427 x 176mm)
Front Panel	Buttons	(1) UID / (1) PWR w/ LED / (1) RST
	LEDs	(1) HDD / (1) ID / (2) LAN / (1) BMC event
	I/O Ports	(2) USB 2.0 ports / (2) USB 3.0 ports / (1) COM Port / (1) LAN Port (IPMI) / (1) VGA port / (1) Line in / Line out / MIC
	I/O Ports	(2) 2.5" Hot-Swap NVMe HDD/SSDs / (8) 3.5"/2.5" Hot-swap HDD/SSDs
External Drive Bay	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	Supported HDD Interface	(2) SATA 6Gb/s / NVMe / (8) SATA 6Gb/s / SAS 12Gb/s
System Cooling Configuration	FAN	(3) easy-swap 12038 fans
	Type	ATX
Power Supply	Input Range	AC 100~240V/12~15A
	Efficiency	80 plus Platinum
	Output Watts	2,000 Watts
	Redundancy	N/A
Processor	Q'ty / Socket Type	(1) LGA4189
	Supported CPU Series	3rd Gen Intel Xeon Scalable Processor
	Thermal Design Power (TDP) wattage	Max up to 270W (TDP)
Chipset	PCH	Intel C621A
	Supported DIMM Qty	(8) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/LRDIMM 3200
Memory	Capacity	Up to 1,024GB RDIMM/ 2,048GB LRDIMM/ 2,048GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
	Memory channel	8 Channels per CPU
	Memory voltage	1.2V
Expansion Slots	PCIe	(1) PCIe Gen.4 x8 slot (#4 w/x4 link) / (1) PCIe Gen.4 x8 slot (#2 via MUX) / (1) PCIe Gen.4 x16 slot (#3 w/x8 link) / (2) PCIe Gen.4 x16 slots (#5,#6)
	Port Q'ty	(1) GbE port + (1) GbE dedicated for IPMI
LAN	Controller	Intel I210
	PHY Controller	Realtek RTL8211E
	SATA	Connector (2) 7-pin SATA 6G ports / (1) Mini-SAS HD (4 ports) Controller Intel C621A Speed 6Gb/s RAID RAID 0/1/10/5 (Intel RSTe)
Storage	sSATA	Connector (2) Mini-SAS HD (8-ports) Controller Intel C621A Speed 6Gb/s RAID RAID 0/1/10/5 (Intel RSTe)
	NVMe	Connector(M.2) (2) 22110/2280 (by PCIe Gen.3 interface)
	NVMe	Connector(M.2) (1) SFF-8654 for (2) NVMe ports

Graphic	Connector type	D-Sub 15-pin
	Resolution	Up to 1920x1200
	Chipset	Aspeed AST2500
Input /Output	USB	(2) USB2.0 ports (@ rear) / (2) USB3.0 ports (@ rear) / (2) USB3.0 ports (via cable)
	COM	(1) DB-9 COM port
	VGA	(1) D-Sub 15-pin port
	RJ-45	(1) GbE ports + (1) GbE dedicated for IPMI
TPM (Optional)	TPM Support	Please refer to our TPM supported list.
	Chipset	Aspeed AST2500
System Monitoring	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & memory & system environment
	LED	Over temperature warning indicator / Fan & PSU fail LED indicator
Server Management	Others	Watchdog timer support
	Onboard Chipset	Onboard Aspeed AST2500
	AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
BIOS	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface
	Brand / ROM size	AMI / 32MB
Operating System	Feature	Hardware Monitor / Boot from USB device/PXE via LAN/Storage / Console Redirection / User Configurable FAN PWM Duty Cycle / SMBIOS 3.3/PnP/Wake on LAN / ACPI 6.2 / ACPI sleeping states S5
	OS supported list	Please refer to our AVL support lists.
Regulation	FCC (SDoC)	Class B
	CE (DoC)	Class B
	VCCI	Class B
	RCM	Class B
Operating Environment	CB/LVD	Yes
	Operating Temp.	0° C ~ 40° C (32° F ~ 104° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
RoHS	In/Non-operating Humidity	90%, non-condensing at 35° C
	RoHS 6/6 Compliant	Yes

(Specifications are subject to change without notice. Items pictured may only be representative.)

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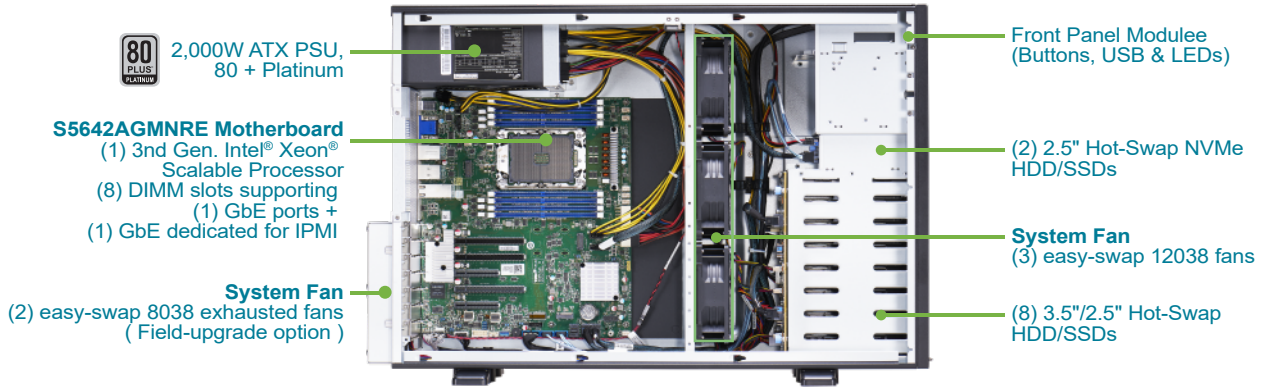
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External Drive Bay	Q'ty / Type	(2) 2.5" Hot-Swap NVMe HDD/SSDs / (8) 3.5/2.5" Hot-swap HDD/SSDs	
	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe	
	Supported HDD Interface	(2) SATA 6Gb/s / NVMe / (8) SATA 6Gb/s / SAS 12Gb/s	
System Cooling Configuration	FAN	(2) 8038 hot-swap FAN module at rear / (3) easy-swap 12038 fans	
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Power Supply	Type	ATX	
	Input Range	AC 100~240V/12~15A	
	Efficiency	80 plus Platinum	
	Output Watts	2,000 Watts	
Processor	Redundancy	N/A	
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		Port Q'ty	(2) 10GbE ports + (1) GbE ports + (1) GbE dedicated for IPMI
LAN	Controller	Intel I210 / Intel X550-AT2	
	PHY Controller	Realtek RTL8211E	
	Storage	SATA	Connector
Controller			Intel C621A
Speed			6Gb/s
ssATA		RAID	RAID 0/1/10/5 (Intel RSTe)
		Connector	(2) Mini-SAS HD (8-ports)
		Controller	Intel C621A
NVMe	Speed	6Gb/s	
	RAID	RAID 0/1/10/5 (Intel RSTe)	
	Connector (M.2)	(2) 22110/2280 (by PCIe Gen.3 interface)	
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	RJ-45	(2) 10GbE ports + (1) GbE ports + (1) GbE dedicated for IPMI
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	FCC (SDoC)	Class B
Regulation	CE (DoC)	Class B
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Operating Environment	Operating Temp.	0° C ~ 40° C (32° F ~ 104° F)
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