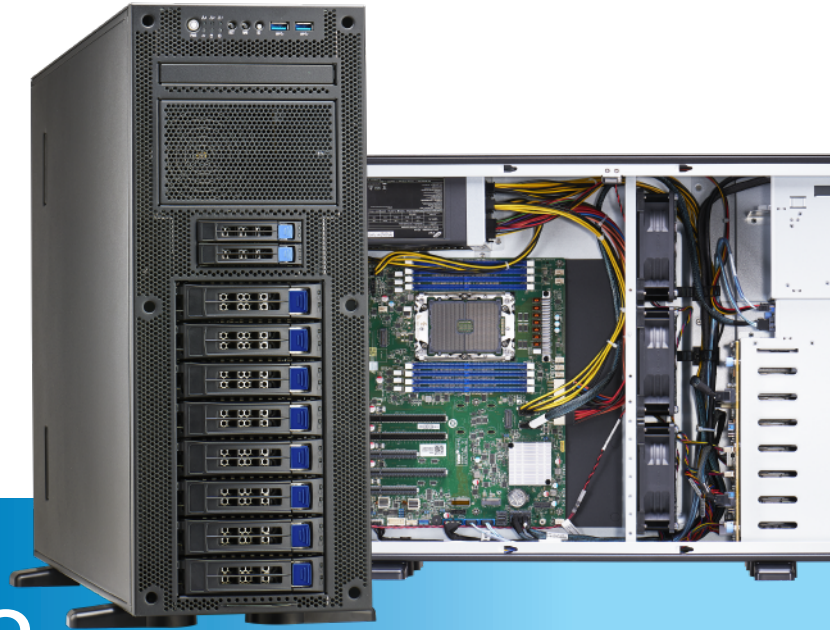


DESKSIDE INTEL GPU SERVER



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



- 80 plus Platinum (100-240Vac, 1,500W)
- 80 plus Gold (200-240Vac, 2,000W)

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
- 2,000WDC ATX PSU @ 200-240VAC, 80+ Gold
- 1,500WDC ATX PSU @ 115-200VAC, 80+ Platinum
- 1,200WDC ATX PSU @ 110-115VAC, 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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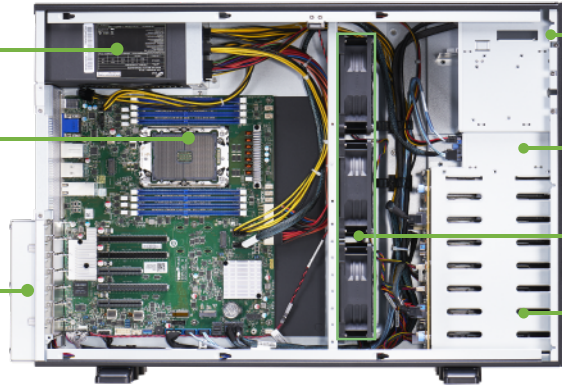
Specifications

Top View

80 PLUS PLATINUM **80 PLUS GOLD**
 80 plus Platinum (100-240Vac, 1,500W)
 80 plus Gold (200-240Vac, 2,000W)

S5642AGMNR Motherboard
 (1) 3rd Gen. Intel® Xeon® Scalable Processor
 (8) DIMM slots supporting
 (1) GbE ports +
 (1) GbE dedicated for IPMI

System Fan
 (2) 8038 exhausted fans
 (Field-upgrade option)



Front Panel Modulee
 (Buttons, USB & LEDs)

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

System Fan
 (3) easy-swap 12038 fans

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

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	Motherboard	S5642AGMNR
	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
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	(3) easy-swap 12038 fans
Power Supply	Type	ATX
	Input Range	AC 100-240V/12-15A
	Efficiency	80 plus Gold (200-240Vac, 2,000W) / 80 plus Platinum (100-240Vac, 1,500W)
	Output Watts	1,200 Watts (110-115Vac input) / 1,500 Watts (115-200Vac input) / 2,000 Watts (200-240Vac)
Processor	Redundancy	N/A
	Q'ty / Socket Type	(1) LGA4189
	Supported CPU Series	3rd Gen Intel Xeon Scalable Processor
Chipset	Thermal Design Power Wattage	Max up to 270W (TDP)
	PCH	Intel C621A
Memory	Supported DIMM Qty	(8) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/LRDIMM 3200
	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) Connector (U.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
TPM (Optional)	RJ-45	(1) GbE ports + (1) GbE dedicated for IPMI
	TPM Support	Please refer to our TPM supported list.
System Monitoring	Chipset	Aspeed AST2500
	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
	CB/LVD	Yes
Operating Environment	Operating Temp.	0° C ~ 40° C (32° F ~ 104° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity	90%, non-condensing at 35° C
RoHS	RoHS 6/6 Compliant	Yes

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

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Transport HX FT65T-B5642

B5642F65TV8E2H-2T-N

TYAN

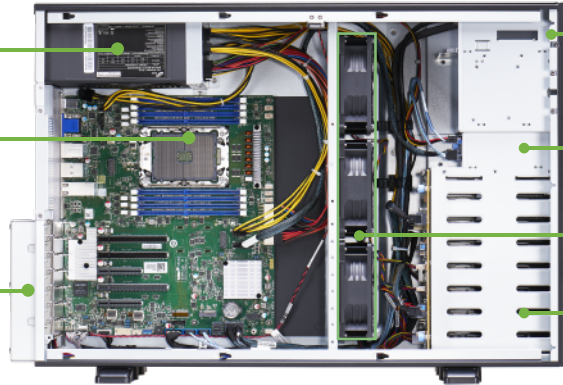
Specifications

Top View

80 PLUS PLATINUM **80 PLUS GOLD**
ATX PSU,
 80 plus Platinum (100-240Vac, 1,500W)
 80 plus Gold (200-240Vac, 2,000W)

S5642AGM3NRE Motherboard
 (1) 3rd Gen. Intel® Xeon® Scalable Processor
 (8) DIMM slots supporting
 (1) GbE ports +
 (1) GbE dedicated for IPMI

System Fan
 (2) 8038 exhausted fans
 (Pre-installed)



Front Panel Module
 (Buttons, USB & LEDs)

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

System Fan
 (3) easy-swap 12038 fans

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

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	Chassis Name	FT65T
	Dimension (D x W x H)	25.5" x 16.8" x 6.9" (650 x 427 x 176mm)
Front Panel	Motherboard	S5642AGM3NRE-2T
	Buttons	(1) UID / (1) PWR w/ LED / (1) RST
	LEDs	(1) HDD / (1) ID / (2) LAN / (1) BMC event
External Drive Bay	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
	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
System Cooling Configuration	Supported HDD Interface	(2) SATA 6Gb/s / NVMe / (8) SATA 6Gb/s / SAS 12Gb/s
	FAN	(2) 8038 exhausted fans module at rear / (3) easy-swap 12038 fans
	Type	ATX
Power Supply	Input Range	AC 100~240V/12~15A
	Efficiency	80 plus Gold (200-240Vac, 2,000W) / 80 plus Platinum (115-200Vac, 1,500W)
	Output Watts	1,000 Watts (100-115Vac input) / 2,000 Watts (200-240Vac input)
	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
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	Memory voltage	1.2V
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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
	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)
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	Connector type	D-Sub 15-pin
	Resolution	Up to 1920x1200
Graphic	Chipset	Aspeed AST2500

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TPM (Optional)	RJ-45	(2) 10GbE ports + (1) GbE ports + (1) GbE dedicated for IPM
	TPM Support	Please refer to our TPM supported list.
System Monitoring	Chipset	Aspeed AST2500
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & memory & system equipment
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	Others	Watchdog timer support
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BIOS	AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) /10/100/1000 Mb/s MAC interface
Operating System	Brand / ROM size	AMI / 32MB
	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
Regulation	OS supported list	Please refer to our AVL support lists.
	FCC (SDoC)	Class B
	CE (DoC)	Class B
Operating Environment	VCCI	Class B
	RCM	Class B
	CB/LVD	Yes
RoHS	Operating Temp.	0° C ~ 40° C (32° F ~ 104° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity	90%, non-condensing at 35° C
	RoHS 6/6 Compliant	Yes

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