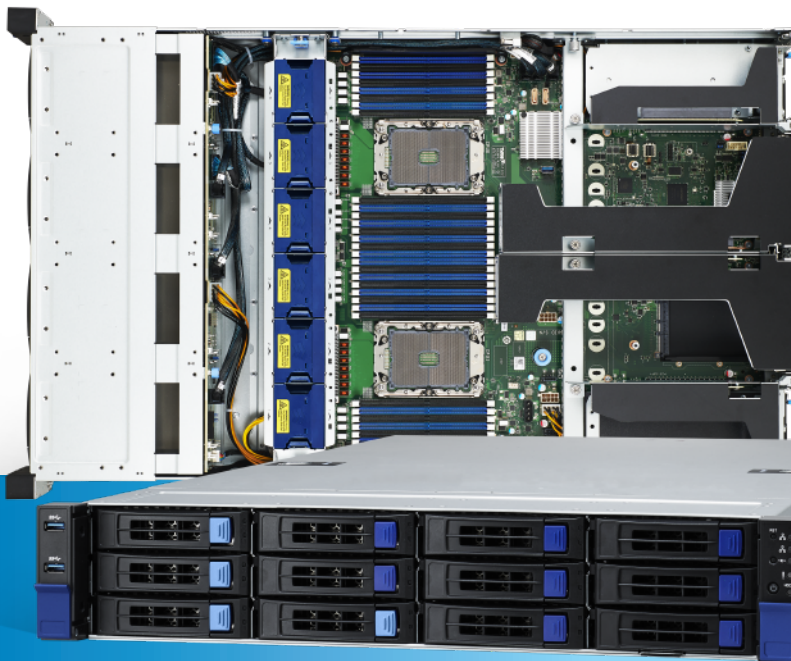


2U2S HPC SERVER



Thunder HX TS75-B7122

B7122T75V8E4HR-2T / B7122T75V8E4HR-2T-N



Front View



- (8) 3.5/2.5" Hot-swap HDD/SSDs
- (4) NVMe Hot-swap tool-less drive bays

Back View



- B7122T75V8E4HR-2T
- (1+1) 1,600W RPSU, 80+ Platinum

- B7122T75V8E4HR-2T-N
- (1+1) 2,000W RPSU, 80+ Platinum

2U2S Whitely platform for AI inference and in-memory computing workloads

- Dual LGA4189 socket
- (2) 3rd Gen Intel® Xeon® Scalable Processors
- (16+16) DDR4 DIMM slots, Support up to 4,096GB RDIMM/ 8,192GB LRDIMM/ 8,192GB RDIMM 3DS/LRDIMM 3DS
- (8) 3.5/2.5" Hot-swap HDD/SSDs + (4) NVMe Hot-swap tool-less drive bays
- (2) 22110/2280 NVMe M.2 slots
- (2) FH/FL + (1) HH/HL + (1) FH/HL PCIe Gen.4 x16 slots and (1) HH/HL PCIe Gen.4 x8 slot
- (2) 10GbE + (1) IPMI ports
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,600W RPSU, 80+ Platinum or (1+1) 2,000W RPSU, 80+ Platinum (-N sku)

Summary Table

SKU	Motherboard	Storage
B7122T75V8E4HR-2T	S7122GM2NRE-2T	(8) 3.5/2.5" Hot-swap HDD/SSDs + (4) NVMe
B7122T75V8E4HR-2T-N	S7122GM2NRE-2T	(8) 3.5/2.5" Hot-swap HDD/SSDs + (4) NVMe

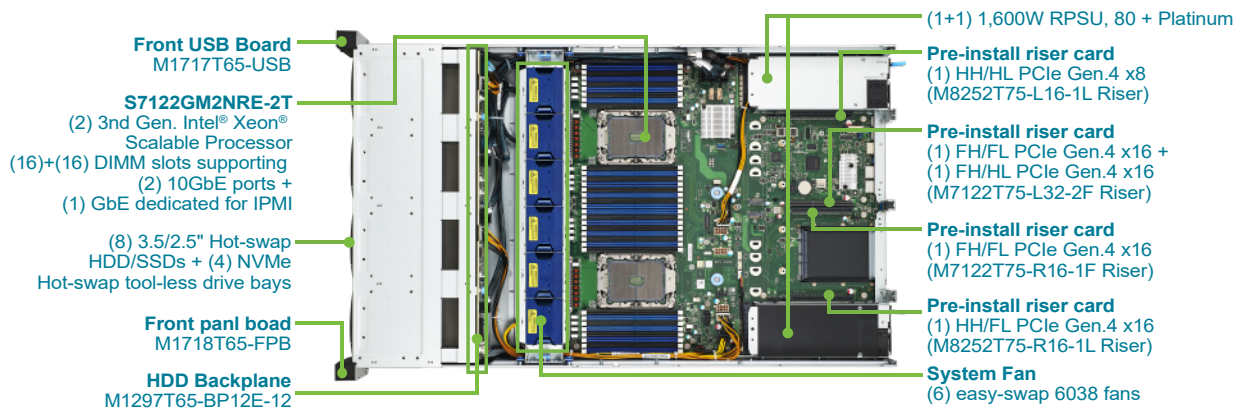
Transport HX TS75-B7122

B7122T75V8E4HR-2T

TYAN

Specifications

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TS75
	Dimension (D x W x H)	29.56" x 17.26" x 3.43" (750.8 x 438.4 x 87mm)
	Motherboard	S7122GM2NRE-2T #
	Gross Weight	32 kg (70.5 lbs)
	Net weight	20.3 kg (44.8 lbs)
Front Panel	Buttons	(1) UID / (1) PWR w/ LED / (1) RST
	LEDs	(1) PWR / (1) UID / (2) LAN / (1) BMC event
External Drive Bay	I/O Ports	(2) USB 3.2 Gen.1 ports
	Q'ty / Type	(4) NVMe / (8) 3.5/2.5" Hot-swap HDD/SSDs
System Cooling Configuration	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	Supported HDD Interface	(12) SATA 6Gb/s with (4) NVMe ports
Power Supply	FAN	(6) 6cm fans
	Type	RPSU
	Input Range	AC 100-127V/13A / AC 200-240V/9.5A
	Efficiency	80 plus Platinum
Processor	Output Watts	1,600 Watts
	Redundancy	1+1
	Q'ty / Socket Type	(2) LGA4189
Chipset	Supported CPU Series	3rd Gen Intel Xeon Scalable Processor
	Thermal Design Power (TDP) wattage	Max up to 270W (TDP)
Memory	PCH	Intel C621A
	Supported DIMM Qty	(16)+(16) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/LRDIMM 3200
	Capacity	Up to 4,096GB RDIMM / 8,192GB LRDIMM / 8,192GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
Expansion Slots	Memory channel	8 Channels per CPU
	Memory voltage	1.2V
	PCIe	(1) M7122T75-R16-1F riser card / (1) M7122T75-L32-2F riser card / (1) M8252T75-L16-1L riser card / (1) M8252T75-R16-1L riser card
LAN	Pre-install TYAN Riser Card (PCIe Gen.4)	(1) M7126-L16-1F riser card for (1) PCIe Gen.4 x16 slot / (1) M7126-R16-1F riser card for (1) PCIe Gen.4 x16 slot
	Others:	(1) PCIe Gen.4 x16 storage mezz. slot
LAN	Port Q'ty	(2) 10GbE ports + (1) GbE dedicated for IPMI
	Controller	Intel X550-AT2
	PHY Controller	Realtek RTL8211F

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

Storage	SATA	Connector	(2) SATA-DOM / (2) Mini-SAS HD (8 ports)
		Controller	Intel C621A
		Speed	6Gb/s
	Stotage sSATA	RAID	RAID 0/1/10/5 (Intel RSTe)
		Connector	(1) Mini-SAS HD (4 ports)
		Controller	Intel C621A
Storage NVMe	Speed	6Gb/s	
	RAID	RAID 0/1/10/5 (Intel RSTe)	
Storage (Optional)	Connector(M.2)	(2) 22110/2280	
	Connector(U.2)	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe	
Graphic	Storage (Optional)	VROC Support	Yes
	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
Input /Output	Chipset	Aspeed AST2600	
	USB	(2) USB3.1 Gen.1 ports (@ front)	
TPM (Optional)	VGA	(1) D-Sub 15-pin port	
	RJ-45	(2) 10 GbE ports + (1) dedicated GbE for IPMI	
System Monitoring	TPM Support	Please refer to our TPM supported list.	
	Chipset	Aspeed AST2600	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
Server Management	Temperature	Monitors temperature for CPU & memory & system environment	
	LED (On system front panel)	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator	
	Others	Watchdog timer support	
BIOS	Onboard Chipset	Onboard Aspeed AST2600	
	AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
Operating System	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
	Brand / ROM size	AMI / 32MB	
Regulation	Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.0/PnP/Wake on LAN / ACPI sleeping states S0,S5,S3	
	OS supported list	Please refer to our AVL support lists.	
	FCC (SDoC)	Class A	
Operating Environment	CE (DoC)	Class A	
	VCCI	Class A	
	RCM	Class A	
RoHS	CB/LVD	Yes	
	Operating Temp.	10° C ~ 35° C (50° F ~ 95° 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 Complaint	Yes	

MiTAC Computing Technology Corp

USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Taiwan
Tel: +886-3-327-5988
Fax: +886-3-327-6312

China
Shanghai Tel: +86-021-61431188 #1361
China Tel: +86-010-62381108 #2485

Japan
Tel: +81-3-3769-8311
Fax: +81-3-3769-8328

EMEA
Tel: +44 07540328523
Email: robin.daunter@tyan.com

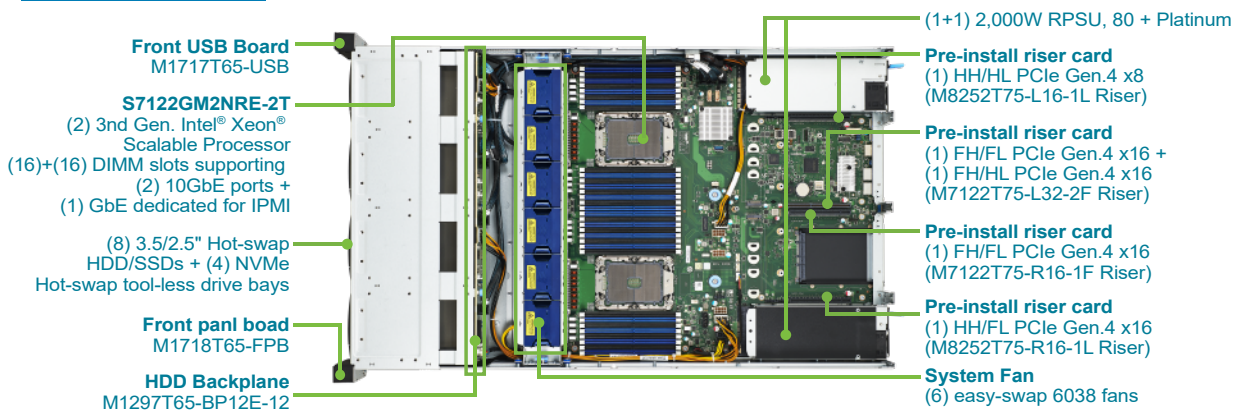
Transport HX TS75-B7122

B7122T75V8E4HR-2T-N

TYAN

Specifications

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TS75
	Dimension (D x W x H)	29.56" x 17.26" x 3.43" (750.8 x 438.4 x 87mm)
	Motherboard	S7122GM2NRE-2T #
Front Panel	Gross Weight	32 kg (70.5 lbs)
	Net weight	20.3 kg (44.8 lbs)
	Buttons	(1) UID / (1) PWR w/ LED / (1) RST
External Drive Bay	LEDs	(1) PWR / (1) UID / (2) LAN / (1) BMC event
	I/O Ports	(2) USB 3.2 Gen.1 ports
System Cooling Configuration	Q'ty / Type	(4) NVMe / (8) 3.5/2.5" Hot-swap HDD/SSDs
	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe
Power Supply	Supported HDD Interface	(12) SATA 6Gb/s with (4) NVMe ports
	FAN	(6) 6cm fans
Processor	Type	RPSU
	Input Range	AC 100-127V/13A / AC 200-240V/10A
Chipset	Efficiency	80 plus Platinum
	Output Watts	2,000 Watts
Memory	Redundancy	1+1
	Q'ty / Socket Type	(2) LGA4189
Expansion Slots	Supported CPU Series	3rd Gen Intel Xeon Scalable Processor
	Thermal Design Power (TDP) wattage	Max up to 270W (TDP)
LAN	Chipset	Intel C621A
	Supported DIMM Qty	(16)+(16) DIMM slots
System Monitoring	DIMM Type / Speed	DDR4 RDIMM/LRDIMM 3200
	Capacity	Up to 4,096GB RDIMM/ 8,192GB LRDIMM/ 8,192GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
Server Management	Memory channel	8 Channels per CPU
	Memory voltage	1.2V
BIOS	PCIe	(1) PCIe Gen.4 x8 slot (HH/HL) / (1) PCIe Gen.4 x16 slot (FH/HL) / (1) PCIe Gen.4 x16 slot (HH/HL) / (2) PCIe Gen.4 x16 slots (FH/FL)
	Pre-install TYAN Riser Card (PCIe Gen.4)	(1) M7122T75-R16-1F riser card / (1) M7122T75-L32-2F riser card / (1) M8252T75-L16-1L riser card / (1) M8252T75-R16-1L riser card
Regulation	Others:	(1) PCIe Gen.4 x16 OCP 3.0 mezz. slot
	Port Q'ty	(2) 10GbE ports + (1) GbE dedicated for IPMI
Operating System	Controller	Intel X550-AT2
	PHY Controller	Realtek RTL8211F

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

Storage	Connector	(2) SATA-DOM / (2) Mini-SAS HD (8 ports)
	Controller	Intel C621A
	Speed	6Gb/s
	RAID	RAID 0/1/10/5 (Intel RSTe)
Graphic	Connector	(1) Mini-SAS HD (4 ports)
	Controller	Intel C621A
	Speed	6Gb/s
	RAID	RAID 0/1/10/5 (Intel RSTe)
Input /Output	Storage Connector(M.2)	(2) 22110/2280
	Storage Connector(U.2)	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe
TPM (Optional)	Storage (Optional) VROC Support	Yes
	Connector type	D-Sub 15-pin
System Monitoring	Resolution	Up to 1920x1200
	Chipset	Aspeed AST2600
Server Management	USB	(2) USB3.1 Gen.1 ports (@ front)
	VGA	(1) D-Sub 15-pin port
BIOS	RJ-45	(2) 10 GbE ports + (1) dedicated GbE for IPMI
	TPM Support	Please refer to our TPM supported list.
Operating System	Chipset	Aspeed AST2600
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
Regulation	Temperature	Monitors temperature for CPU & memory & system environment
	LED (On system front panel)	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator
Operating Environment	Others	Watchdog timer support
	Onboard Chipset	Onboard Aspeed AST2600
RoHS	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
RoHS	Brand / ROM size	AMI / 32MB
	Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.0/PnP/Wake on LAN / ACPI sleeping states S0,S5,S3
RoHS	OS supported list	Please refer to our AVL support lists.
	FCC (SDoC)	Class A
RoHS	CE (DoC)	Class A
	VCCI	Class A
RoHS	RCM	Class A
	CB/LVD	Yes
RoHS	Operating Temp.	10° C ~ 35° C (50° F~ 95° 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 Complaint	Yes

MiTAC Computing Technology Corp

USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Taiwan
Tel: +886-3-327-5988
Fax: +886-3-327-6312

China
Shanghai Tel: +86-021-61431188 #1361
China Tel: +86-010-62381108 #2485

Japan
Tel: +81-3-3769-8311
Fax: +81-3-3769-8328

EMEA
Tel: +44 07540328523
Email: robin.daunter@tyan.com