

## 2U2S CLOUD STORAGE SERVER



### Thunder CX TS75-B7132

B7132T75E8HR / B7132T75E8HR-2T



#### Front View



B7132T75E8HR / B7132T75E8HR-2T  
(8) 3.5" Hot-Swap HDD/SSDs

#### Back View



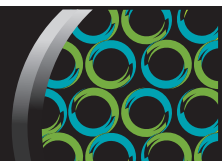
(1+1) 1,600W CRPS, 80+ Platinum

2U2S Eaglestream storage server platform with maximum memory capacity for in-memory computing and virtualization applications

- Dual LGA4677 socket
- (2) 4rd Gen Intel® Xeon® Scalable Processors
- (16+16) DDR5 DIMM slots, Support up to up to 4,096GB RDIMM/3DS RDIMM DDR5 4800/4400/4000 memory
- (10) hot-swap 2.5" SAS/SATA HDDs / with (16) hot-swap 2.5" NVMe
- (2) 22110/2280 NVMe M.2 slots
- (2) FH/10.5"/L/DW PCIe Gen.5 x16 + (1) HH/HL PCIe 5.0 x16 + (1) HH/HL PCIe 5.0 x8 slots
- (2) GbE + (1) IPMI ports or (2) 10GbE + (1) IPMI ports
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,600W CRPS, 80+ Platinum

#### Summary Table

SKU	Motherboard	Storage
B7132T75E8HR	S7132GM2NRE	(8) 2.5" Hot-swap HDD/SSDs
B7132T75E8HR-2T	S7132GM2NRE-2T	(8) 2.5" Hot-swap HDD/SSDs



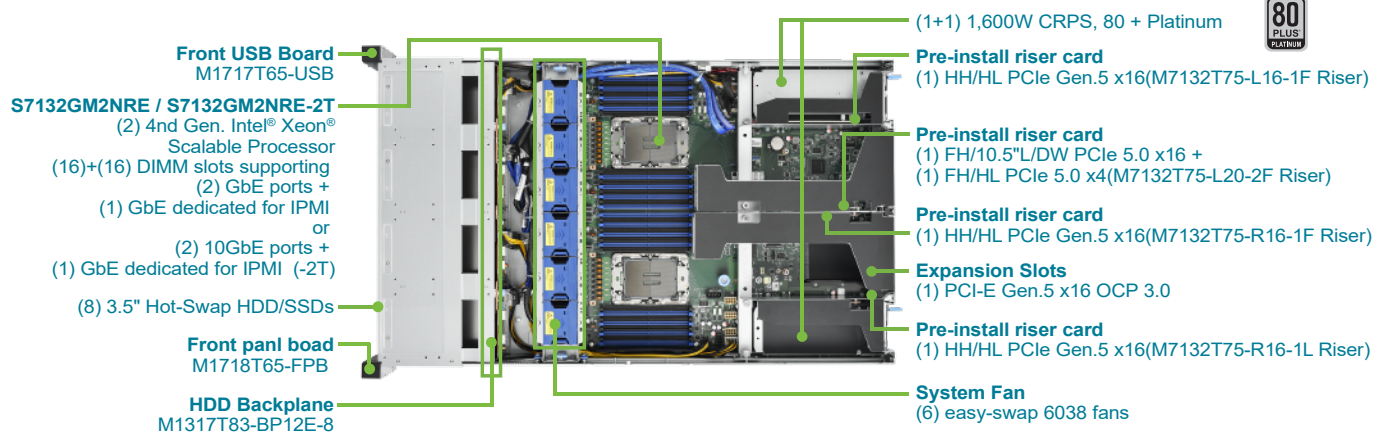
# Transport HX TS75-B7132

B7132T75E8HR

# TYAN

## Specifications

### Top View



<b>System</b>	<b>Form Factor</b>	2U Rackmount
	<b>Chassis Name</b>	TS75
	<b>Dimension (D x W x H)</b>	29.56" x 17.26" x 3.43" (750.8 x 438.4 x 87mm)
	<b>Motherboard</b>	S7132GM2NRE #
	<b>Motherboard Notification</b>	# The motherboard not sold separately
	<b>Gross Weight</b>	33.1 kg (73 lbs)
	<b>Net weight</b>	20.3 kg (44.8 lbs)
<b>Front Panel</b>	<b>Buttons</b>	(1) UID / (1) PWR w/ LED / (1) RST
	<b>LEDs</b>	(1) UID / (2) LAN / (1) System Event
	<b>I/O Ports</b>	(2) USB 3.2 Gen.1 ports
<b>External Drive Bay</b>	<b>Q'ty / Type</b>	(8) 3.5" Hot-Swap HDD/SSDs
	<b>HDD backplane support</b>	(8) SATA 6Gb/s / SAS 12Gb/s / NVMe U.2
	<b>Supported HDD Interface</b>	SAS 12Gb/s /SATA 6Gb/s /NVMe
	<b>Notification</b>	The SAS/SATA HDD backplane is connected to onboard SATA connection by default. Please contact Tyan technical support if a discrete SAS HBA/RAID adapter is required.
<b>System Cooling Configuration</b>	<b>FAN</b>	(6) 6cm fans
<b>Power Supply</b>	<b>Type</b>	CRPS
	<b>Input Range</b>	AC 100-127V/13A / AC 200-240V/10A
	<b>Efficiency</b>	80 plus Platinum
	<b>Output Watts</b>	1,000 Watts (100-127V AC input) / 1,600 Watts (200-240V AC input)
<b>Processor</b>	<b>Redundancy</b>	1+1
	<b>Q'ty / Socket Type</b>	(2) LGA4677
	<b>Supported CPU Series</b>	4th Gen. Intel Xeon Scalable Processors
<b>Chipset</b>	<b>Thermal Design Power (TDP) wattage</b>	Max up to 350W (TDP)
	<b>PCH</b>	Intel C741
<b>Memory</b>	<b>Supported DIMM Qty</b>	(16)+(16) DIMM slots
	<b>DIMM Type / Speed</b>	RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC / 3DS RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC
	<b>Capacity</b>	Up to 4,096GB RDIMM/3DS RDIMM DDR5 4800/4400 /4000 memory
	<b>Memory channel</b>	8 Channels per CPU
	<b>Memory voltage</b>	1.1V
<b>Expansion Slots</b>	<b>PCIe</b>	(1) PCIe Gen.5 x4 slot / (4) PCIe Gen.5 x16 slot
	<b>Pre-installed TYAN Riser Card (PCIe Gen.5)</b>	(1) M7132T75-L20-2F riser card for (1) FH/10.5"L/DW PCIe 5.0 x16 + (1) FH/HL PCIe 5.0 x4 slots / (1) M7132T75-L16-1F riser card for (1) HH/HL PCIe Gen.5 x16 slot / (1) M7132T75-R16-1L riser card for (1) HH/HL PCIe Gen.5 x16 slot / (1) M7132T75-R16-1F riser card for (1) FH/10.5"L/DW PCIe 5.0 x16 slot
	<b>Others:</b>	(1) PCI-E Gen.5 x16 OCP 3.0 mezzanine slot

<b>LAN</b>	<b>Port Q'ty</b>	(2) GbE ports + (1) GbE dedicated for IPMI	
	<b>Controller</b>	Intel I210-AT	
<b>Storage</b>	<b>PHY Controller</b>	Realtek RTL8211F	
	<b>Storage SATA</b>	<b>Connector</b>	(10) SATA
		<b>Controller</b>	Intel C741
		<b>Speed</b>	6Gb/s
<b>Storage NVMe</b>	<b>RAID</b>	RAID 0/1/10/5 (Intel RSTe)	
	<b>Connector (M.2)</b>	(2) 22110/2280 (by PCIe Gen.4 interface)	
<b>Storage (Optional)</b>	<b>Connector (U.2)</b>	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe	
	<b>VROC Support</b>	Yes	
<b>Graphic</b>	<b>Connector type</b>	D-Sub 15-pin	
	<b>Resolution</b>	Up to 1920x1200	
	<b>Chipset</b>	Aspeed AST2600	
<b>Input /Output</b>	<b>USB</b>	(1) USB3.2 Gen.1 port (@ rear) / (2) USB3.2 Gen.1 ports (@ front)	
	<b>VGA</b>	(1) D-Sub 15-pin port	
<b>TPM (Optional)</b>	<b>RJ-45</b>	(2) GbE ports + (1) dedicated GbE for IPMI	
	<b>TPM Support</b>	Please refer to our TPM supported list.	
<b>System Monitoring</b>	<b>Interface</b>	SPI	
	<b>Chipset</b>	Aspeed AST2600	
	<b>Voltage</b>	Monitors voltage for CPU, memory, chipset & power supply	
	<b>Temperature</b>	Monitors temperature for CPU & memory & system environment	
<b>Server Management</b>	<b>LED (On system front panel)</b>	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator	
	<b>Others</b>	Watchdog timer support	
	<b>Onboard Chipset</b>	Onboard Aspeed AST2600	
<b>BIOS</b>	<b>AST2500 iKVM Feature</b>	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	<b>AST2500 IPMI Feature</b>	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
<b>Operating System</b>	<b>Brand / ROM size</b>	AMI / 64MB	
	<b>Feature</b>	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PnP/Wake on LAN / ACPI sleeping states S0, S5	
<b>Regulation</b>	<b>OS supported list</b>	Please refer to our AVL support lists.	
	<b>FCC (SDoC)</b>	Class A	
	<b>CE (DoC)</b>	Class A	
	<b>VCCI</b>	Class A	
<b>Operating Environment</b>	<b>RCM</b>	Class A	
	<b>CB/LVD</b>	Yes	
	<b>Operating Temp.</b>	10° C ~ 35° C (50° F~ 95° F)	
<b>RoHS</b>	<b>Non-operating Temp.</b>	-40° C ~ 70° C (-40° F ~ 158° F)	
	<b>In/Non-operating Humidity</b>	90%, non-condensing at 35° C	
<b>RoHS 6/6 Complaint</b>	<b>RoHS 6/6 Complaint</b>	Yes	

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

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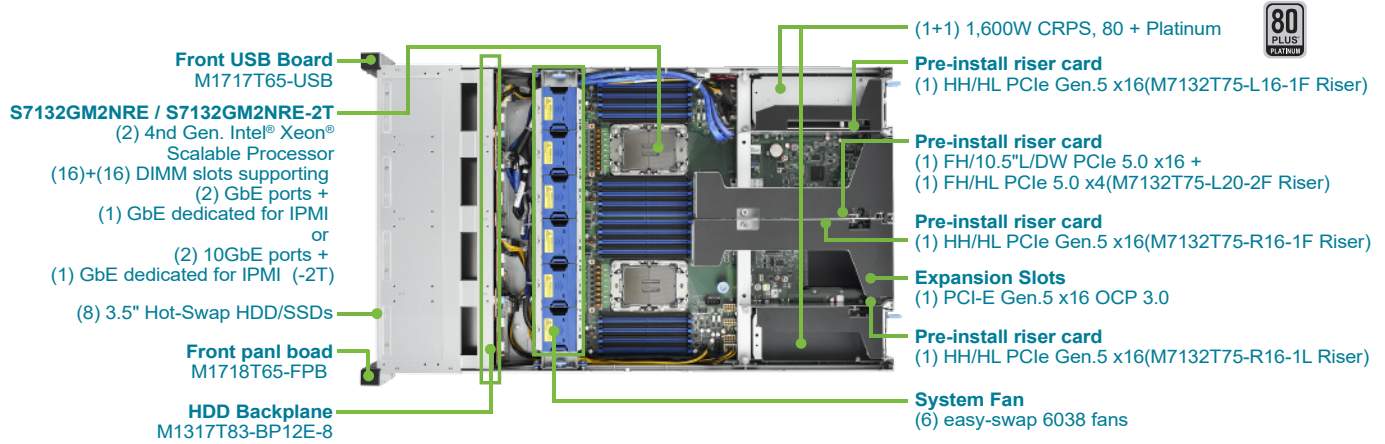
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### Top View



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	<b>Motherboard</b>	S7132GM2NRE-2T #
	<b>Motherboard Notification</b>	# The motherboard not sold separately
<b>Front Panel</b>	<b>Buttons</b>	(1) UID / (1) PWR w/ LED / (1) RST
	<b>LEDs</b>	(1) UID / (2) LAN / (1) System Event
	<b>I/O Ports</b>	(2) USB 3.2 Gen.1 ports
	<b>Q'ty / Type</b>	(8) 3.5" Hot-Swap HDD/SSDs
	<b>HDD backplane support</b>	(8) SATA 6Gb/s / SAS 12Gb/s / NVMe U.2
<b>External Drive Bay</b>	<b>Supported HDD Interface</b>	SAS 12Gb/s /SATA 6Gb/s /NVMe
	<b>Notification</b>	The SAS/SATA HDD backplane is connected to onboard SATA connection by default. Please contact Tyan technical support if a discrete SAS HBA/RAID adapter is required.
	<b>FAN</b>	(6) 6cm fans
<b>Power Supply</b>	<b>Type</b>	CRPS
	<b>Input Range</b>	AC 100-127V/13A / AC 200-240V/10A
	<b>Efficiency</b>	80 plus Platinum
	<b>Output Watts</b>	1,000 Watts (100-127V AC input) / 1,600 Watts (200-240V AC input)
<b>Processor</b>	<b>Redundancy</b>	1+1
	<b>Q'ty / Socket Type</b>	(2) LGA4677
	<b>Supported CPU Series</b>	4th Gen. Intel Xeon Scalable Processors
<b>Chipset</b>	<b>Thermal Design Power (TDP) wattage</b>	Max up to 350W (TDP)
	<b>PCH</b>	Intel C741
	<b>Supported DIMM Qty</b>	(16)+(16) DIMM slots
	<b>DIMM Type / Speed</b>	RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC / 3DS RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC
	<b>Capacity</b>	Up to 4,096GB RDIMM/3DS RDIMM DDR5 4800/4400 /4000 memory
<b>Memory</b>	<b>Memory channel</b>	8 Channels per CPU
	<b>Memory voltage</b>	1.1V
	<b>PCIe</b>	(1) PCIe Gen.5 x4 slot / (4) PCIe Gen.5 x16 slot (1) M7132T75-L20-2F riser card for (1) FH/10.5"L/DW PCIe 5.0 x16 + (1) FH/HL PCIe 5.0 x4 slots / (1) M7132T75-L16-1F riser card for (1) HH/HL PCIe Gen.5 x16 slot / (1) M7132T75-R16-1L riser card for (1) HH/HL PCIe Gen.5 x16 slot / (1) M7132T75-R16-1F riser card for (1) FH/10.5"L/DW PCIe 5.0 x16 slot
	<b>Pre-installed TYAN Riser Card (PCIe Gen.5)</b>	(1) PCIe Gen.5 x16 OCP 3.0 mezzanine slot
<b>Expansion Slots</b>	<b>Others:</b>	(1) PCIe Gen.5 x16 OCP 3.0 mezzanine slot

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<b>LAN</b>	<b>Port Q'ty</b>	(2) 10GbE ports + (1) GbE dedicated for IPMI	
	<b>Controller</b>	Intel X710-AT2	
<b>Storage</b>	<b>PHY Controller</b>	Realtek RTL8211F	
	<b>Storage SATA</b>	<b>Connector</b>	(10) SATA
		<b>Controller</b>	Intel C741
	<b>Storage NVMe</b>	<b>Speed</b>	6Gb/s
<b>RAID</b>		RAID 0/1/10/5 (Intel RSTe)	
<b>Storage (Optional)</b>	<b>Storage Connector (M.2)</b>	(2) 22110/2280 (by PCIe Gen.4 interface)	
	<b>Storage Connector (U.2)</b>	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe	
<b>Graphic</b>	<b>VROC Support</b>	Yes	
	<b>Connector type</b>	D-Sub 15-pin	
<b>Input /Output</b>	<b>Resolution</b>	Up to 1920x1200	
	<b>Chipset</b>	Aspeed AST2600	
	<b>USB</b>	(1) USB3.2 Gen.1 port (@ rear) / (2) USB3.2 Gen.1 ports (@ front)	
<b>TPM (Optional)</b>	<b>VGA</b>	(1) D-Sub 15-pin port	
	<b>RJ-45</b>	(2) 10 GbE ports + (1) dedicated GbE for IPMI	
<b>System Monitoring</b>	<b>TPM Support</b>	Please refer to our TPM supported list.	
	<b>Interface</b>	SPi	
	<b>Chipset</b>	Aspeed AST2600	
	<b>Voltage</b>	Monitors voltage for CPU, memory, chipset & power supply	
<b>Server Management</b>	<b>Temperature</b>	Monitors temperature for CPU & memory & system environment	
	<b>LED (On system front panel)</b>	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator	
	<b>Others</b>	Watchdog timer support	
<b>BIOS</b>	<b>Onboard Chipset</b>	Onboard Aspeed AST2600	
	<b>AST2500 iKVM Feature</b>	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	<b>AST2500 IPMI Feature</b>	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
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	<b>Feature</b>	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PnP/Wake on LAN / ACPI sleeping states S0, S5	
<b>Regulation</b>	<b>OS supported list</b>	Please refer to our AVL support lists.	
	<b>FCC (SDoC)</b>	Class A	
	<b>CE (DoC)</b>	Class A	
	<b>VCCI</b>	Class A	
<b>Operating Environment</b>	<b>RCM</b>	Class A	
	<b>CB/LVD</b>	Yes	
	<b>Operating Temp.</b>	10° C ~ 35° C (50° F ~ 95° F)	
	<b>Non-operating Temp.</b>	- 40° C ~ 70° C (-40° F ~ 158° F)	
<b>RoHS</b>	<b>In/Non-operating Humidity</b>	90%, non-condensing at 35° C	
	<b>RoHS 6/6 Complaint</b>	Yes	

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