

## 2U2S 4-GPU SERVER



## Transport HX TN83-B8251

B8251T83E8HR-2T-N

AMD  
EPYC



nvm  
EXPRESS

PCIe 4.0

### Front View



B8251T83E8HR-2T-N

• (8) 3.5/2.5" Hot-swap SSD/HDDs @ front

### Back View



• (1+1) 2,200W CRPS, 80+ Platinum

## 2U2S AMD PCIe Gen4 Server Platform Designed for HPC/GPGPU Applications

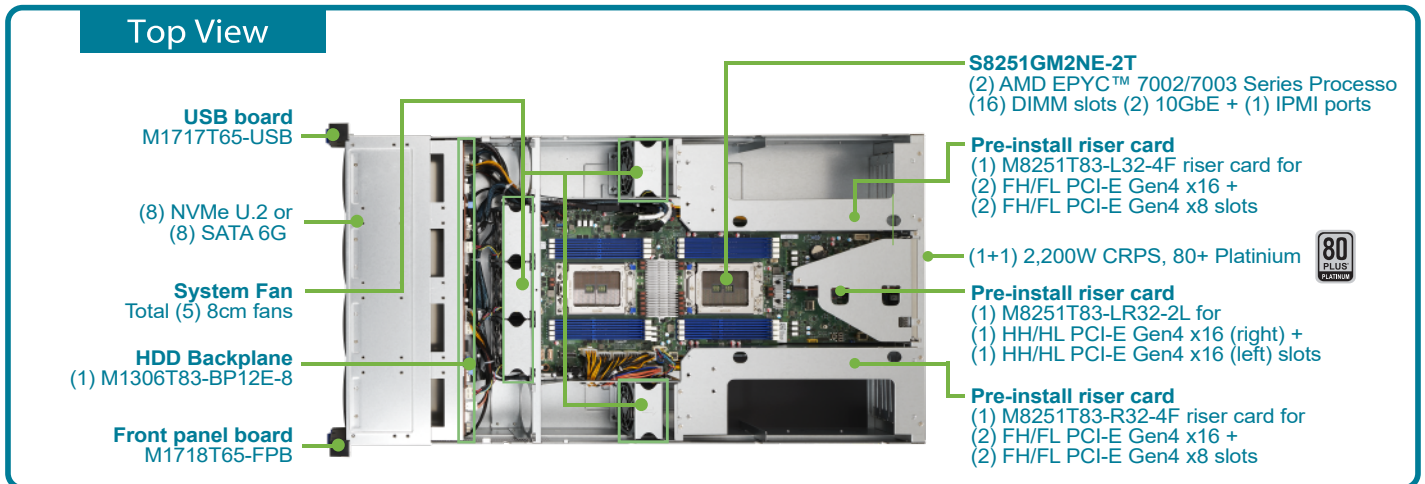
- Dual Socket SP3
- (2) AMD EPYC™ 7002/7003 Series Processors
- (8) NVMeU.2 / SATA 6G
- (8+8) R/LRDIMM DDR4 3200, Up to 2,048GB RDIMM & 4,096GB LRDIMM 3DS
- Up to (4) FH/FL PCI-E Gen4 x8 slots via riser cards + (2) HH/HL PCI-E Gen4 x16 slots via riser cards
- (2) 10GbE + (1) IPMI ports
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 2,200W CRPS, 80+ Platinum

# Transport SX TN83-B8251

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# TYAN

## Specifications



System	<b>Form Factor</b>	2U Rackmount
	<b>Chassis Name</b>	TN83
	<b>Dimension (D x W x H)</b>	32.71" x 17.25" x 3.43" (831 x 438.4 x 87mm)
	<b>Motherboard</b>	S8251GM2NE-2T#
	<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)
Front Panel	<b>Buttons</b>	(1) RST, (1) PWR w/ LED & (1) UID
	<b>LEDs</b>	(1) HDD, (2) LAN, (1) UID & (1) System Event
	<b>I/O Ports</b>	(2) USB 3.1 (Gen. 1) ports
External Drive Bay	<b>Q'ty / Type</b>	(8) 3.5/2.5" Hot-swap SSD/HDDs
	<b>HDD backplane support</b>	SATA 6Gb/s, SAS 12Gb/s & NVMe
	<b>Supported HDD Interface</b>	(8) 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.
System Cooling Configuration	<b>FAN</b>	(5) 8cm fans
Power Supply	<b>Type</b>	CRPS
	<b>Input Range</b>	AC 200-240V / 12.6A
	<b>Efficiency</b>	80+ Platinum
	<b>Output Watts</b>	2,200 Watts
	<b>Redundancy</b>	1+1
Processor	<b>Q'ty / Socket Type</b>	(2) AMD Socket SP3
	<b>Supported CPU Series</b>	(2) AMD EPYC™ 7002/7003 Series Processors
	<b>Configurable Thermal Design Power (cTDP) Wattage</b>	Max up to 240W*, 280W CPUs follow Tyan AVL
Memory	<b>Supported DIMM Qty</b>	(8+8) DIMM slots
	<b>DIMM Type / Speed</b>	DDR4 ECC RDIMM/LRDIMM 3DS/LRDIMM/LRDIMM 3DS 3200
	<b>Capacity</b>	Up to 2,048GB RDIMM / 4,096GB LRDIMM 3DS
	<b>Memory channel</b>	8 Channels
LAN	<b>Memory voltage</b>	1.2V
	<b>Pre-install TYAN Riser Card (PCIe Gen.4)</b>	(1) M8251T83-L32-4F riser card for (2) FH/FL PCIe Gen.4 x16 + (2) FH/FL PCIe Gen.4 x8 slots (left) * split by Mux. (1) M8251T83-R32-4F riser card for (2) FH/FL PCIe Gen.4 x16 + (2) FH/FL PCIe Gen.4 x8 slots (right) * split by Mux. (1) M8251T83-LR32-2L riser card for (1) HH/HL PCIe Gen.4 x16 (right) + (1) HH/HL PCIe Gen.4 x16 (left) slots
	<b>Port Q'ty</b>	(2) 10GbE ports (1) dedicated GbE port for IPMI
	<b>Controller</b>	Intel X550-AT2
	<b>PHY Controller</b>	Realtek® RTL8211E

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

Storage	SATA	<b>Connector</b>	(2) SATA-DOM (8) SATA from (2) Slim SAS (8-ports)
		<b>Controller</b>	Direct from AMD EYPC CPU
		<b>Speed</b>	6Gb/s
		<b>RAID</b>	N/A
Graphic	NVMe	<b>Connector (U.2)</b>	(4) SFF-8654 for (8) NVMe ports
		<b>Connector type</b>	D-Sub 15-pin
Input / Output	USB	<b>Resolution</b>	Up to 1920x1200
		<b>Chipset</b>	Aspeed AST2500
		<b>COM</b>	(2) USB 3.1 Gen.1 ports (at rear) (2) USB 3.1 Gen.1 ports (via cable) (1) Type-A USB 3.1 Gen.1 port
		<b>VGA</b>	(1) D-Sub 15-pin
TPM (Optional)	RJ-45	<b>SATA</b>	(2) 10GbE ports + (1) dedicated GbE for IPMI
		<b>SATA</b>	(8) SATA from (2) Slim SAS connectors (2) SATA-DOM connectors
		<b>TPM Support</b>	Please refer to our TPM supported list.
		<b>Chipset</b>	Onboard Aspeed AST2500
System Monitoring	Voltage	<b>Temperature</b>	Monitors voltage for CPU, memory, chipset & power supply Monitors temperature for CPU & memory & system environment
		<b>LED</b>	Over temperature warning indicator, Fan & PSU fail LED indicator
		<b>Others</b>	Watchdog timer support
		<b>Onboard Chipset</b>	Onboard Aspeed AST2500
Server Management	AST2500 iKVM Feature	<b>AST2500 IPMI Feature</b>	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface
		<b>Brand / ROM size</b>	AMI / 32MB
		<b>Feature</b>	Hardware Monitor / SMBIOS 3.0/PnP/Wake on LAN, Boot from USB device/PXE via LAN/Storage, Console Redirection, ACPI 6.1, ACPI sleeping states S0, S5, FAN speed control automatic
Operating System	<b>OS supported list</b>	Please refer to our AVL support list	
Regulation	FCC (SDoC)	<b>CE (DoC)</b>	Class A
		<b>VCCI</b>	Class A
		<b>RCM</b>	Class A
		<b>CB/LVD</b>	Yes
Operating Environment	Operating Temp.	<b>Non-operating Temp.</b>	10° C ~ 35° C (50° F ~ 95° F) - 40° C ~ 70° C (-40° F ~ 158° F)
		<b>In/Non-operating Humidity</b>	90%, non-condensing at 35° C
		<b>RoHS</b>	RoHS 6/6 Compliant

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