

2U4N HCI SERVER PLATFORM



Transport CX TN73-B8037

B8037T73X4-200PE4HR / B8037T73X4-200PV4HR



■ Front View



• B8037T73X4-200PE4HR
(16) SFF SATA 6G/NVMe U.2; 4 per sled



• B8037T73X4-200PV4HR
(16) SFF SATA 6G; 4 per sled

■ Back View



• (1+1) 1,968W CRPS

2U4N server platform designed for HCI applications

- Max up to (16) 2.5" NVMe/SATA Hot-Swap Tool-less drive bays
- 4 1S EPYC sleds, front-access
- (8) DIMM slots per node DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200
- (2) PCIe Gen.4 x16 slot per sled + (1) OCP 2.0 mezzanine slot per sled
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,968W CRPS, 80 PLUS Platinum

■ Summary Table

SKU	Motherboard	Storage
B8037T73X4-200PE4HR	S8037GM2NE	(16) SFF SATA 6G/NVMe U.2; 4 per sled
B8037T73X4-200PV4HR	S8037GM2NE	(16) SFF SATA 6G; 4 per sled



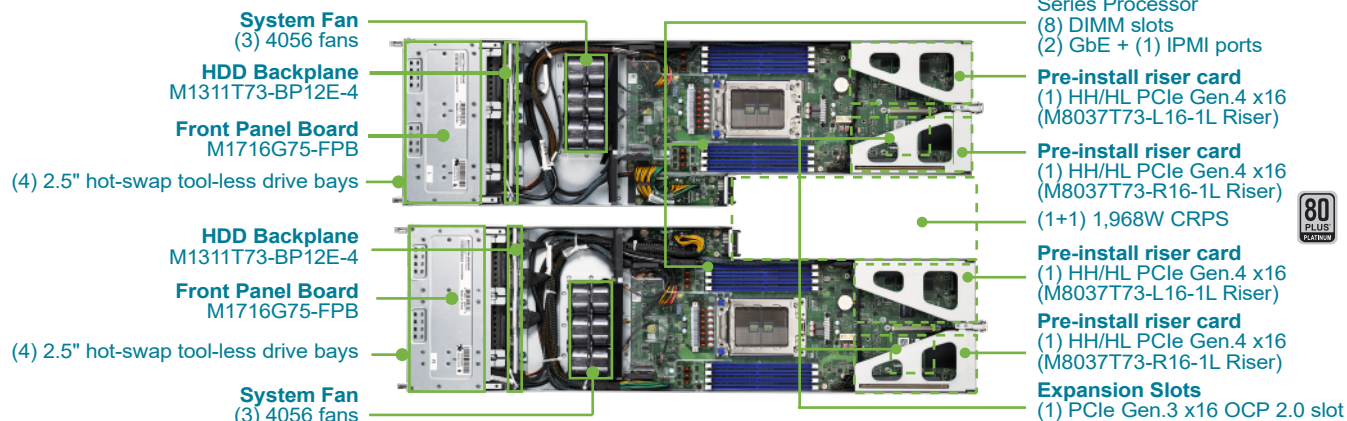
Transport CX TN73-B8037

B8037T73X4-200PE4HR

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Specifications

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TN73
	Dimension (D x W x H)	28.74" x 17.32" x 3.44" (730 x 440 x 87.5mm)
	Motherboard	S8037GM2NE
	Gross Weight	48.5 kg (107 lbs)
Front Panel	Buttons	(1) PWR / (1) RST / (1) UID
	LEDs	(1) HDD / (1) ID / (1) System Event / (2) LAN activity
External Drive Bay	I/O Ports	(2) USB 3.1 Gen.1 ports
	Q'ty / Type	(4) 2.5" Hot-Swap SSD per node
	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	Supported HDD Interface	4) SAS 12Gb/s / SATA 6Gb/s
	Notification	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	FAN	(3) 4cm fans per node
Power Supply	Type	CRPS
	Input Range	AC 220-240V/10A
	Efficiency	80 plus Platinum
	Output Watts	1,968 Watts
	Redundancy	1+1
Processor	Q'ty / Socket Type	(1) AMD Socket SP3 per node
	Supported CPU Series	(1) AMD EPYC™ 7002/7003 Series Processor
	Thermal Design Power (TDP) wattage	Max up to 240W
Memory	Supported DIMM Qty	(8) DIMM slots (per node)
	DIMM Type / Speed	DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200
	Capacity	Up to 2,048GB RDIMM / 4,096GB LRDIMM 3DS
	Memory channel	8 Channels per CPU
	Memory voltage	1.2V
Expansion Slots	PCIe	(2) HH/HL PCIe Gen.4 x16 slots
	Pre-install TYAN Riser Card (PCIe Gen.4)	(1) M8037T73-R16-1L riser card for (1) HH/HL / (1) M8037T73-L16-1L riser card for (1) HH/HL
	Others:	(1) PCIe Gen.3 x16 OCP 2.0 slot
LAN	Port Q'ty	2) GbE ports + (1) GbE dedicated for IPMI
	PHY Controller	Realtek RTL8211E

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Storage	SATA	Connector	(1) SFF-8654 connector for up to (4) SATA ports
		Controller	Direct from AMD EPYC CPU
		Speed	6Gb/s
		RAID	N/A
Graphic	NVMe	Connector (M.2)	(2) 22110/2280 (by PCIe Gen.4 & SATA interface)
		Connector (U.2)	(2) SFF-8654 for (4) NVMe ports
Input / Output	COM	(1) header (COM1)	
	VGA	(1) D-Sub 15-pin port	
	RJ-45	(2) GbE ports, (1) dedicated GbE 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	
	Others	Watchdog timer support	
Server Management	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	
	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
BIOS	Brand / ROM size	AMI / 32MB	
	Feature	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	OS supported list	Please refer to our AVL support list	
Regulation	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	VCCI	Class A	
	RCM	Class A	
	CB/LVD	Yes	
Operating Environment	Operating Temp.	10° C ~ 35° C (50° F ~ 95° 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 Complaint	Yes	

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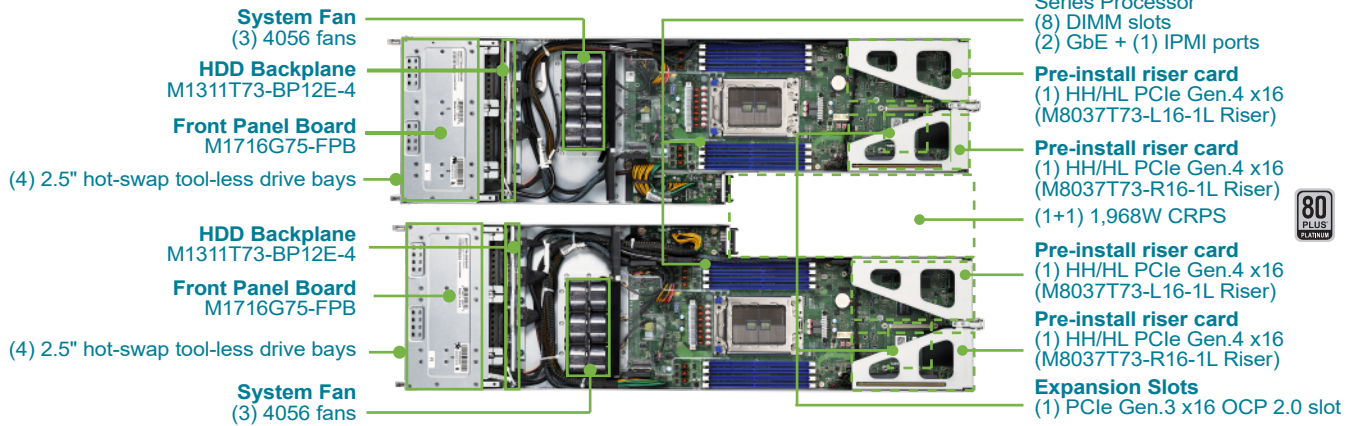
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	PHY Controller	Realtek RTL8211E

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Graphic	NVMe Connector (M.2)	(2) 22110/2280 (by PCIe Gen.4 & SATA interface)
	Connector type	D-Sub 15-pin
Input/Output	Resolution	Up to 1920x1200
	Chipset	Aspeed AST2500
	USB	(1) USB3.1 TYPE-C (@ rear) / (2) USB3.1 Gen.1 ports (via Cable)
	COM	(1) header (COM1)
TPM (Optional)	VGA	(1) D-Sub 15-pin port
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