

2U2S HPC SERVER



Transport SX TS65-B8253

B8253T65V10E4HR / B8253T65V10E4HR-2T

AMD
EPYC



nvm
EXPRESS

Front View



- B8253T65V10E4HR
(12) front 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe)
+(2) rear 2.5" hot-swap (SATA)



- B8253T65V10E4HR-2T
(12) front 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe)
+(2) rear 2.5" hot-swap (SATA)

Back View



- (1+1) 1,200W CRPS, 80+ Platinum

2U2S server platform designed for CSP storage applications

- Dual Socket SP3
- (2) AMD EPYC™ 7002/7003 Series Processor
- (16) RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200, Up to 1,024GB RDIMM / 4,096GB LRDIMM 3DS
- Up to (4) PCIe Gen.4 x16 slots + (3) Gen.4 x8 slot via riser cards
- (2) 10GbE + (2) GbE + (1) IPMI or (2) GbE + (1) IPMI
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,200W CRPS, 80+ Platinum

Summary Table

SKU	Motherboard	Storage
B8253T65V10E4HR	S8253GM2NE	(12) front 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe) +(2) rear 2.5" hot-swap (SATA)
B8253T65V10E4HR-2T	S8253GM4NE-2T	(12) front 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe) +(2) rear 2.5" hot-swap (SATA)



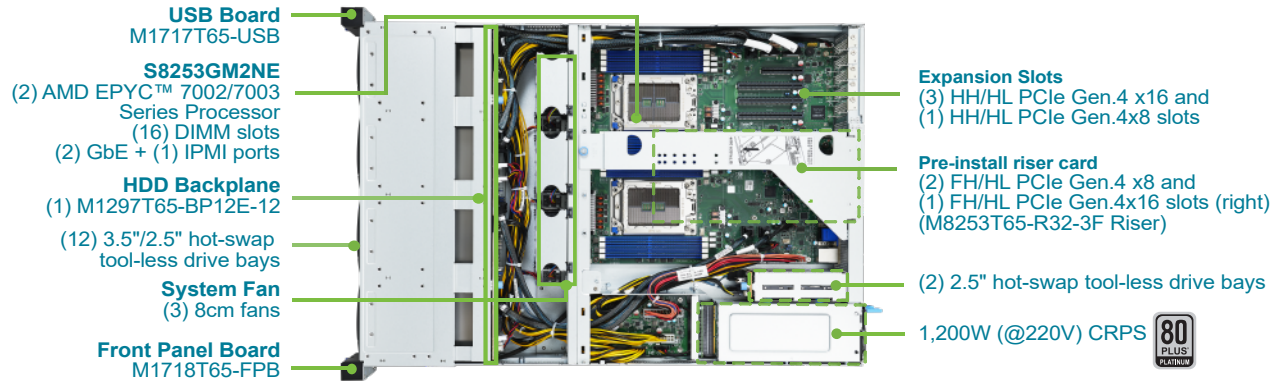
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B8253T65V10E4HR

TYAN

Specifications

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TS65
	Dimension (D x W x H)	25.59" x 17.32" x 3.43" (650 x 440 x 87mm)
	Motherboard	S8253GM2NE
	Gross Weight	30 kg (66 lbs)
Front Panel	Buttons	(1) RST / (1) PWR w/ LED / (2) UID
	LEDs	(2) LAN / (1) UID / (1) System Event
External Drive Bay	I/O Ports	(2) USB 3.1 Gen.1 ports
	Q'ty / Type	(12) 3.5"/2.5" Hot-Swap SSD/HDD (@ front) + (2) 2.5" Hot-Swap SSD/HDD (@ rear)
	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	Supported HDD Interface	(12) SATA 6Gb/s with (4) NVMe ports (@ front) + (2) SATA 6Gb/s (@ rear)
System Cooling Configuration	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.
	FAN	(3) 8cm fans
Power Supply	Type	CRPS
	Input Range	AC 200-240V/7A / AC 100-127V/13A
	Efficiency	80 plus Platinum
	Output Watts	1,200 Watts
	Redundancy	1+1
Processor	Q'ty / Socket Type	(2) AMD Socket SP3
	Supported CPU Series	(2) AMD EPYC™ 7002/7003 Series Processors
	Thermal Design Power (TDP) wattage	Max up to 240, 280W CPUs follow Tyan AVL
Memory	Supported DIMM Qty	(16) DIMM slots
	DIMM Type / Speed	DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200
	Capacity	Up to 1,024GB RDIMM / 4,096GB LRDIMM 3DS
	Memory channel	8 Channels per CPU
Expansion Slots	Memory voltage	1.2V
	PCIe	(3) PCIe Gen.4 x16 slots (Low Profile) / (1) PCIe Gen.4 x16 slot (FH/HL) / (1) PCIe Gen.4 x8 slot (Low Profile) / (2) PCIe Gen.4 x8 slot (FH / HL)
	Pre-install TYAN Riser Card (PCIe Gen.4)	(1) M8253T65-R32-3F riser card for (2) FH/HL PCIe Gen.4 x8 slot and (1) FH/HL PCIe Gen.4 x16 slot (right)
	Others:	FH/HL (Full-height / Half-length): 4.4" x 6.6" (111.2 x 167.7mm)
	Port Q'ty	(2) GbE ports + (1) GbE dedicated for IPMI
LAN	Controller	Intel I210
	PHY Controller	Realtek RTL8211E

Storage	SATA	Connector	(3) Mini-SAS HD (12 ports) / (2) 7-pin White SATA 6G ports w/ Power conn. support SATA-DOM, / (2) 7-pin SATA 6G ports
		Controller	Direct from AMD EPYC CPU
		Speed	6Gb/s
	RAID		N/A
	NVMe	Connector (U.2)	(2) SFF-8654 for (4) NVMe ports
Graphic	Connector type		D-Sub 15-pin
	Resolution		Up to 1920x1200
	Chipset		Aspeed AST2500
Input /Output	USB		(2) USB3.1 Gen.1 ports (@ rear) / (1) USB3.1 Gen.1 port (Type-A) / (1) USB3.1 Gen.1 ports (via Cable)
	COM		(1) DB-9 port (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.
System Monitoring	Chipset		Aspeed AST2500
	Voltage		Monitors v oltage for CPU, memory, chipset & power supply
	Temperature		Monitors temperature for CPU & memory & system environment
	LED (On system front panel)		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
	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 lists.
Regulation	FCC (SDoC)		Class A
	CE (DoC)		Class A
	VCCI		Yes
	RCM		Class A
Operating Environment	CB/LVD		Class A
	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

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

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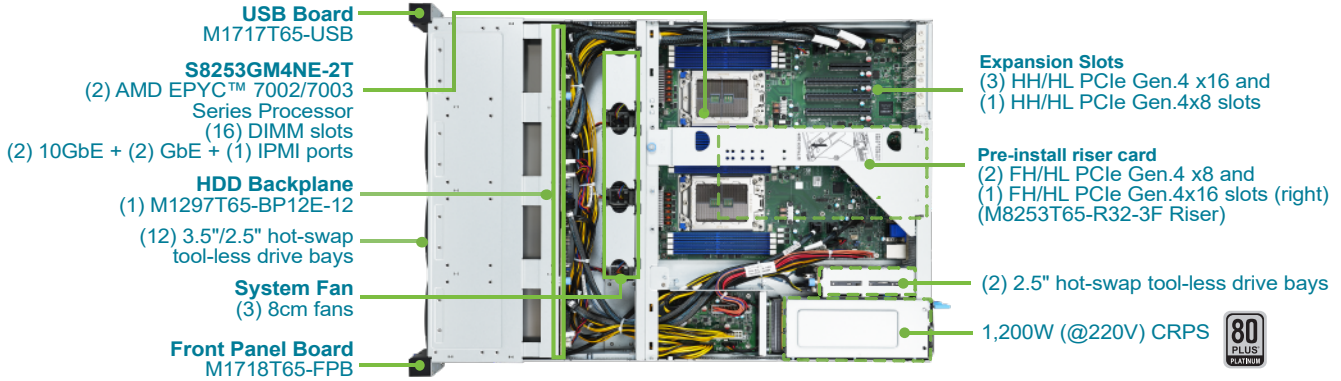
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	Notification	The SAS/SATA HDD backplane is connected to onboard SATA connection by default. Please contact Tyan technical support if a discrete SAS HBA/RAID adapter is required.
System Cooling Configuration	FAN	(3) 8cm fans
Power Supply	Type	CRPS
	Input Range	AC 200-240V/7A / AC 100-127V/13A
	Efficiency	80 plus Platinum
	Output Watts	1,200 Watts
	Redundancy	1+1
Processor	Q'ty / Socket Type	(2) AMD Socket SP3
	Supported CPU Series	(2) AMD EPYC™ 7002/7003 Series Processors
	Thermal Design Power (TDP) wattage	Max up to 240, 280W CPUs follow Tyan an AVL
Memory	Supported DIMM Qty	(16) DIMM slots
	DIMM Type / Speed	DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200
	Capacity	Up to 1,024GB RDIMM / 4,096GB LRDIMM 3DS
	Memory channel	8 Channels per CPU
	Memory voltage	1.2V
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	Others:	FH/HL (Full-height / Half-length): 4.4" x 6.6" (111.2 x 167.7mm)
LAN	Port Q'ty	(2) GbE ports + (1) GbE dedicated for IPMI / (2) 10GbE ports
	Controller	Intel I210 / Intel X550
	PHY Controller	Realtek RTL8211E

Storage	SATA	Connector	(3) Mini-SAS HD (12 ports) / (2) 7-pin White SATA 6G ports w/ Power conn. support SATA-DOM, / (2) 7-pin SATA 6G ports
		Controller	Direct from AMD EPYC CPU
		Speed	6Gb/s
		RAID	N/A
Graphic	NVMe	Connector (U.2)	(2) SFF-8654 for (4) NVMe ports
		Connector type	D-Sub 15-pin
Input /Output	COM	Resolution	Up to 1920x1200
		Chipset	Aspeed AST2500
		USB	(2) USB3.1 Gen.1 ports (@ rear) / (1) USB3.1 Gen.1 port (Type-A) / (1) USB3.1 Gen.1 ports (via Cable)
TPM (Optional)	VGA	COM	(1) DB-9 port (COM1)
		RJ-45	(1) D-Sub 15-pin port
System Monitoring	TPM Support	RJ-45	(2) 10GbE ports, (2) GbE ports, (1) dedicated GbE for IPMI
		Chipset	Please refer to our TPM supported list.
		Voltage	Aspeed AST2500
		Temperature	Monitors voltage for CPU, memory, chipset & power supply environment
		LED (On system front panel)	Monitors temperature for CPU & memory & system environment
Server Management	Onboard Chipset	Others	Over temperature warning indicator / Fan & PSU fail LED indicator
		Onboard Chipset	Watchdog timer support
		AST2500 iKVM Feature	Onboard Aspeed AST2500
BIOS	Feature	AST2500 IPMI Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
		Brand / ROM size	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface
Operating System	OS supported list	AMI / 32MB	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
Regulation	FCC (SDoC)	OS supported list	Please refer to our AVL support lists.
		CE (DoC)	Class A
		VCCI	Class A
		Yes	Yes
Operating Environment	Non-operating Temp.	RCM	Class A
		CB/LVD	Class A
		Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)
RoHS	RoHS 6/6 Complaint	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
		In/Non-operating Humidity	90%, non-condensing at 35° C
		Yes	Yes

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