

2U1S HYBRID STORAGE SERVER



Transport SX TS65-B8036

B8036T65V10E4HR / B8036T65V12E2HR-LE



Front View



B8036T65V10E4HR

- (8) 3.5/2.5" Hot-swap SATA 6G/bs HDD/SSDs + (4) 2.5" NVMe U.2 @front + (2) 2.5" Hot-swap SATA 6G/bs HDD/SSDs @rear



B8036T65V12E2HR-LE

- (10) 3.5/2.5" Hot-swap SATA 6G/bs HDD/SSDs + (2) 2.5" NVMe U.2 @front + (2) 2.5" Hot-swap SATA 6G/bs HDD/SSDs @rear

Back View



- (1+1) 800W/850W CRPS, 80+ Titanium/80+ Platinum

2U1S Server Platform Designed for CSP Storage Applications

- Single Socket SP3
- (1) AMD EPYC™ 7002/7003 Series Processor
- (16) R/LRDIMM DDR4 3200, Up to 1,024GB RDIMM & 4,096GB LRDIMM 3DS
- Up to (6) PCI-E Gen4 x8 slots via riser cards + (1) PCI-E Gen3 x16 OCP 2.0 slot
- (2) GbE + (1) IPMI ports
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 800W/850W CRPS, 80+ Titanium/80+ Platinum

Summary Table

SKU	Motherboard	Storage
B8036T65V10E4HR	S8036GM2NE	(8) 3.5" SATA 6G + (4) NVMe U.2 (front) & (2) 2.5" SATA 6G (rear)
B8036T65V12E2HR-LE	S8036GM2NE-LE	(10) 3.5" SATA 6G + (2) NVMe U.2 (front) & (2) 2.5" SATA 6G (rear)

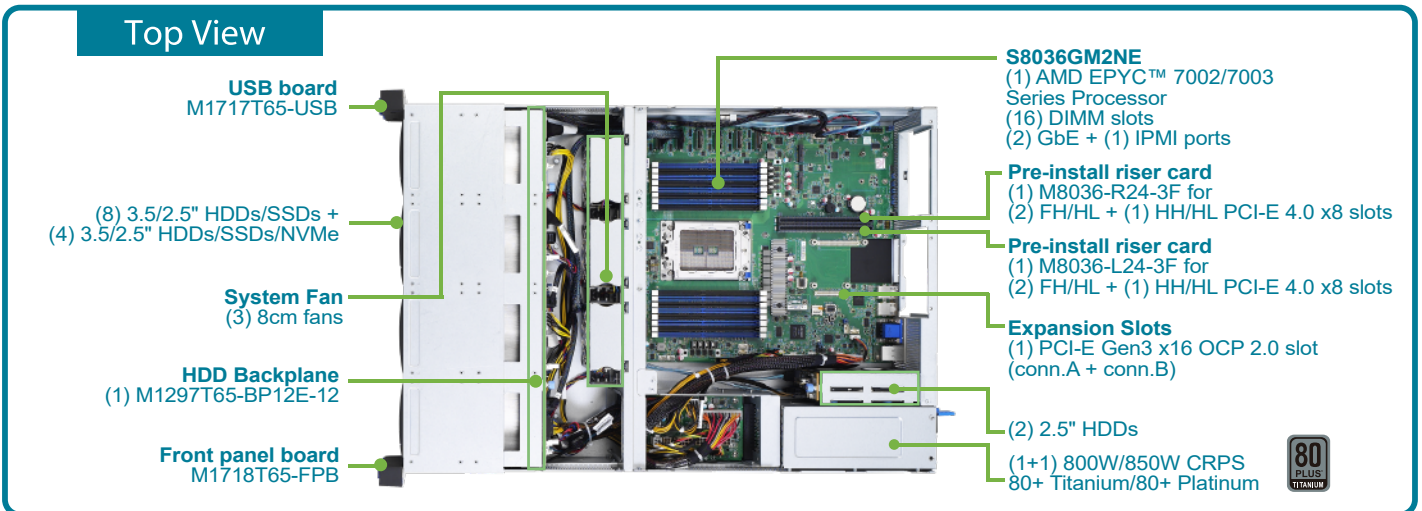


Transport SX TS65-B8036

B8036T65V10E4HR

TYAN

Specifications



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	S8036GM2NE
	Gross Weight	30 kg (66 lbs)
Front Panel	Buttons	(1) RST, (1) PWR w/ LED, (1) UID
	LEDs	(1) ID, (1) UID, (1) System Event
	I/O Ports	(2) USB 3.1 (Gen.1) ports
External Drive Bay	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)
	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
Power Supply	Type	CRPS
	Input Range	AC 100-127V/10A / AC 200-240V/5A
	Efficiency	80 plus Titanium / 80 plus Platinum
	Output Watts	850 Watts / 800 Watts
Processor	Q'ty / Socket Type	(1) AMD Socket SP3
	Supported CPU Series	(1) AMD EPYC™ 7002/7003 Series Processor
	Thermal Design Power (TDP) wattage	Max up to 240W, 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
Expansion Slots	PCI-E	(2) PCIe Gen.4 x8 slots (HH / HL w/ tall bracket) (4) PCIe Gen.4 x8 slots (FH / HL)
	Pre-install TYAN Riser Card (PCI-E Gen.4)	(1) M8036-L24-3F for (2) FH/HL + (1) HH/HL PCI-E 4.0 x8 slots (1) M8036-R24-3F for (2) FH/HL + (1) HH/HL PCI-E 4.0 x8 slots
	Others:	(1) PCIe Gen.3 x16 OCP 2.0 slot (conn.A + conn.B) *Conn. B of OCP 2.0 mezzanine is mux'd with the HH/HL PCI-E x8 slot on M8036-R24-3F riser
	LAN	Port Q'ty (2) GbE + (1) dedicated GbE for IPMI Controller Broadcom BCM5720 PHY Controller Realtek® RTL8211E

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

Storage	SATA	Connector	(2) SFF-8654 connectors for up to (16) SATA ports
		Controller	Direct from AMD EYPC CPU
		Speed	6Gb/s
		RAID	N/A
Storage	Additional SATA	Connector	(2) 7-pin SATA for (2) front SATA drives (2) 7-pin SATA for (2) SATA drives
		Controller	Marvell 9235
		Speed	6Gb/s
Storage		RAID	N/A
	NVMe	Connector (Slim SAS)	(2) SFF-8654 for (4) NVMe ports
		Connector (M.2)	(2) 22110/2280 (by PCIe Gen.3 & SATA interface)
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	
Input / Output	USB	(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	
	COM	(1) DB-9 port (COM1) + (1) header (COM2)	
	VGA	(1) D-Sub 15-pin	
	RJ-45	(2) GbE + (1) dedicated GbE for IPMI	
TPM (Optional)	TPM Support	Please refer to our TPM supported list.	
System Monitoring	Chipset	Onboard Aspeed AST2500	
	Voltage	Monitors voltage 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	
	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	
	FCC (SDoC)	Class A	
Regulation	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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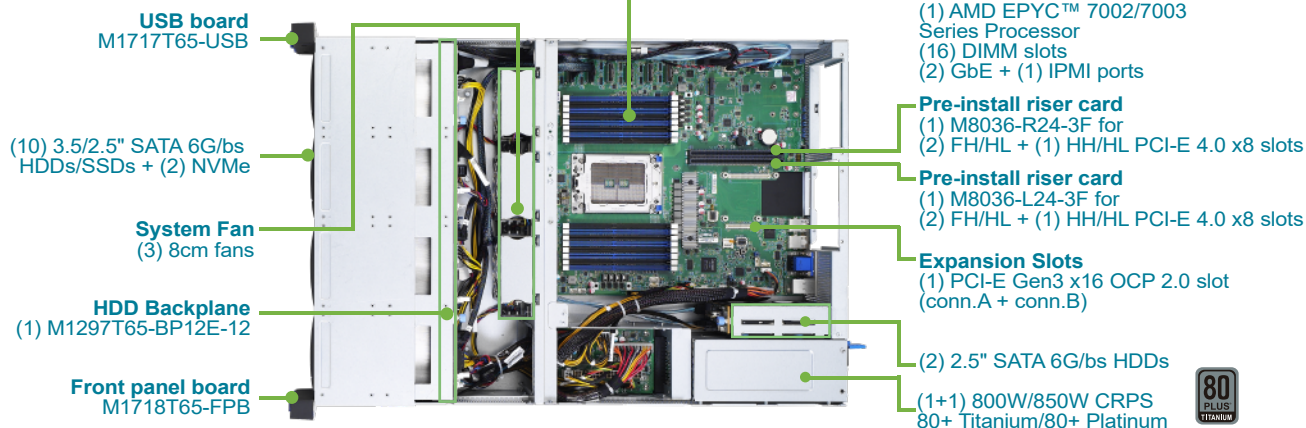
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Specifications

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	S8036GM2NE-LE
	Gross Weight	30 kg (66 lbs)
Front Panel	Net weight	19 kg (42 lbs)
	Buttons	(1) RST, (1) PWR w/ LED, (1) UID
	LEDs	(1) ID, (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	(10) SATA 6Gb/s + (2) NVMe (@ front) + (2) SATA 6Gb/s (@ rear)
	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 100-127V/10A / AC 200-240V/5A
	Efficiency	80 plus Titanium / 80 plus Platinum
	Output Watts	850 Watts / 800 Watts
Processor	Redundancy	1+1
	Q'ty / Socket Type	(1) AMD Socket SP3
	Supported CPU Series	(1) AMD EPYC™ 7002/7003 Series Processor
Memory	Thermal Design Power (TDP) wattage	Max up to 240W, 280W CPUs follow Tyan AVL
	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
Expansion Slots	Memory voltage	1.2V
	PCI-E	(2) PCI-E Gen.4 x8 slots (HH / HL w/ tall bracket) (4) PCI-E Gen.4 x8 slots (FH / HL)
	Pre-install TYAN Riser Card (PCI-E Gen.4)	(1) M8036-L24-3F for (2) FH/HL + (1) HH/HL PCI-E Gen.4 x8 slots (1) M8036-R24-3F for (2) FH/HL + (1) HH/HL PCI-E Gen.4 x8 slots
	Others:	(1) PCI-E Gen.3 x16 OCP 2.0 slot (conn.A + conn.B) *Conn. B of OCP 2.0 mezzanine is mux'd with the HH/HL PCI-E x8 slot on M8036-R24-3F riser
LAN	Port Q'ty	(2) GbE + (1) dedicated GbE for IPMI
	Controller	Broadcom BCM5720
	PHY Controller	Realtek® RTL8211E

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

Storage	SATA	Connector	(1) SFF-8654 connectors for up to (8) SATA ports
		Controller	Direct from AMD EYPC CPU
		Speed	6Gb/s
		RAID	N/A
Storage	Additional SATA	Connector	(2) 7-pin SATA for (2) front SATA drives (2) 7-pin SATA for (2) rear SATA drives
		Controller	Marvell 9235
		Speed	6Gb/s
Storage	NVMe	RAID	N/A
		Connector (Slim SAS)	(1) SFF-8654 for (2) NVMe ports
		Connector (M.2)	(2) 22110/2280 (by PCIe Gen.3 & SATA interface)
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	
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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	
Operating Environment	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	

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