

2U2S CLOUD SERVER



Thunder SX TS70-B7136

B7136T70V10E4HR / B7136T70V10E4HR-2T



Front View



B7136T70V10E4HR / B7136T70V10E4HR-2T
(12) 3.5" SATA hot-swap w/ (4) NVMe +
(2) 2.5" SATA hot-swap

Back View



(1+1) 2,000W CRPS, 80+ Platinum

2U2S server platform for cost-effective cloud storage applications

- Dual LGA4677 socket
- (2) 4th Gen Intel® Xeon® Scalable Processors
- (8+8) Support up to 2,048GB RDIMM/3DS RDIMM DDR5 4800 memory
- (12) 3.5" SATA 6G w/ (4) opt. NVMe U.2 hot-swap tool-less drive bays
- (2) 2.5" SATA hot-swap tool-less drive bays @ rear
- (2) FH/HL PCIe 5.0 x16 + (3) FH/HL PCIe 5.0 x8 (1x w/ x4 link) on two risers
- (1) IPMI ports or (2) 10GbE + (1) IPMI ports(-2T sku)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,200W CRPS, 80+ Platinum

Summary Table

SKU	Motherboard	Storage
B7136T70V10E4HR	S7136GMRE	(12) 3.5" SATA hot-swap w/ (4) NVMe + (2) 2.5" SATA hot-swap
B7136T70V10E4HR-2T	S7136GM2NRE-2T	(12) 3.5" SATA hot-swap w/ (4) NVMe + (2) 2.5" SATA hot-swap



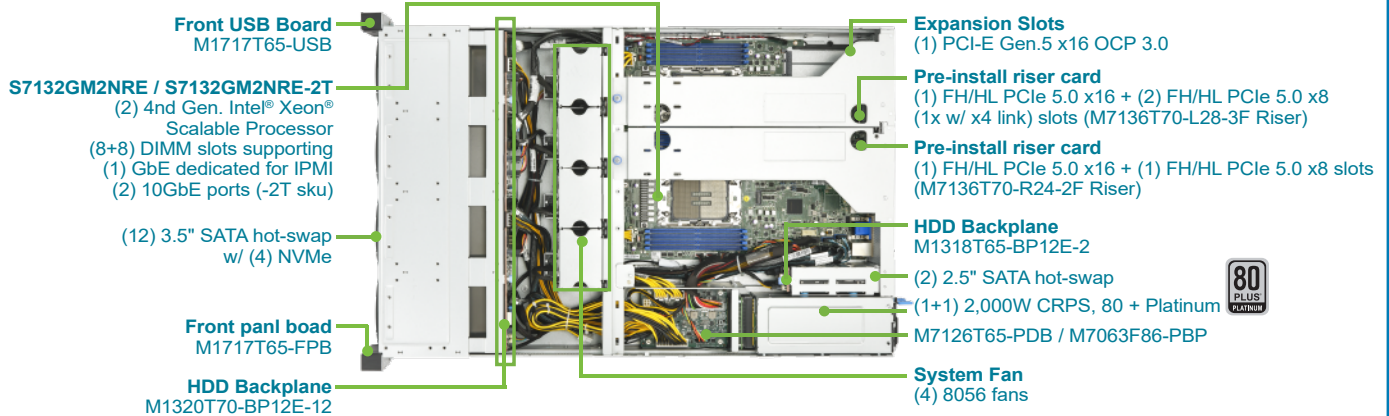
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B7136T70V10E4HR

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Specifications

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TS70
	Dimension (D x W x H)	27.56" x 17.26" x 3.42" (700 x 438.5 x 87mm)
	Motherboard	S7136GMRE
	Gross Weight	28 kg (61.7 lbs)
Front Panel	Net weight	16.5 kg (36.5 lbs)
	Buttons	(1) ID / (1) PWR w/ LED / (1) RST
	LEDs	(1) HDD / (1) ID / (2) LAN / (1) BMC event
External Drive Bay	I/O Ports	(1) USB 3.2 Gen.1 port + (1) RJ-45 / (1) COM Port / (1) VGA port / (2) Standalone RJ-45
	Q'ty / Type	(2) 2.5" Hot-Swap HDD/SSDs (@ rear) / (12) 3.5"/2.5" Hot-Swap HDD/SSDs w/ (4) NVMe
	Front Drive Bay Interface	(2) SATA 6Gb/s / NVMe / (12) SATA 6Gb/s with (4) NVMe ports
System Cooling Configuration	Front HDD Backplane Support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	FAN	(4) 8cm fans
Power Supply	Type	CRPS
	Input Range	AC 100-127V/13A / AC 200-240V/10A
	Efficiency	80 plus Platinum
	Output Watts	1,000 Watts (100-127V AC input) / 1,200Watts (200-240V AC input)
Processor	Redundancy	1+1
	Q'ty / Socket Type	(2) LGA4677
	Supported CPU Series	4th Gen. Intel Xeon Scalable Processors
Chipset	Thermal Design Power wattage	Max up to 350W (TDP)
	PCH	Intel C741
	Supported DIMM Qty	(8)+(8) DIMM slots
Memory	DIMM Type / Speed	RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC / 3DS RDIMM DDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC
	Capacity	Up to 2,048GB RDIMM / 3DS RDIMM DDR5 4800 *Follow latest Intel DDR5 Memory POR
	Memory channel	8 Channels per CPU
	Memory voltage	1.1V
Expansion Slots	PCIe	(1) PCIe Gen.5 x4 slot / (2) PCIe Gen.5 x8 slot / (2) PCIe Gen.5 x16 slot
	Pre-installed TYAN Riser Card (PCIe Gen.5)	(1) M7136T70-R24-2F riser card for (1) FH/HL PCIe 5.0 x16 + (1) FH/HL PCIe 5.0 x8 slots / (1) M7136T70-L28-3F riser card for (1) FH/HL PCIe 5.0 x16 + (2) FH/HL PCIe 5.0 x8(1x w/ x4 link) slots
	Others:	(1) PCI-E Gen.5 x16 OCP 3.0 mezzanine slot
LAN	Q'ty / Port	(1) GbE dedicated for IPMI
	PHY	Realtek RTL8211F

Storage	Connector	(10) SATA
	SATA Controller	Intel C741
	Speed	6Gb/s
	RAID	RAID 0/1/10/5 (Intel RSTe)
NVMe	Connector (M.2)	(2) 2280 (by PCIe 4.0 interface)
	Connector (U.2)	(4) M.2
Graphic	Connector type	D-Sub 15-pin
	Resolution	Up to 1920x1200
Input /Output	Chipset	Aspeed AST2600
	USB	(2) USB3.2 Gen.1 ports (@ rear)
	COM	(1) DB-9 COM port
	VGA	(1) D-Sub 15-pin port
TPM (Optional)	RJ-45	(1) GbE port dedicated for IPMI
	TPM Support	Please refer to our TPM supported list.
System Monitoring	Interface	SPI
	Chipset	Aspeed AST2600
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & memory & system environment
Server Management	LED (On system front panel)	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator
	Others	Watchdog timer support
	Onboard Chipset	Onboard Aspeed AST2600
BIOS	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
Operating System	Brand / ROM size	AMI / 64MB
	Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PnP/Wake on LAN / ACPI 6.0 / ACPI sleeping states S0, S5
Regulation	OS supported list	Please refer to our AVL support lists.
	FCC (SDoC)	Class A
	CE (DoC)	Class A
	VCCI	Class A
Operating Environment	RCM	Class A
	CB/LVD	Yes
RoHS	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

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

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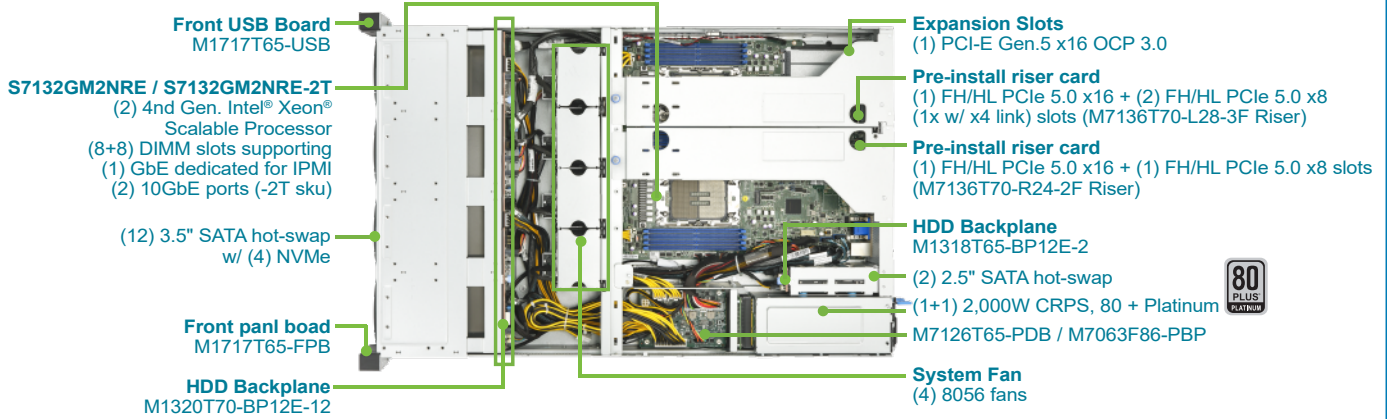
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	PHY Controller	Realtek RTL8211F

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Input /Output	USB	(2) USB3.2 Gen.1 ports (@ rear)
	COM	(1) DB-9 COM port
	VGA	(1) D-Sub 15-pin port
	RJ-45	(2) 10 GbE ports + (1) dedicated GbE for IPMI
TPM (Optional)	TPM Support	Please refer to our TPM supported list.
	Interface	SPI
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	Non-operating Temp.	-40° C ~ 70° C (-40° F ~ 158° F)
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RoHS	RoHS 6/6 Compliant	Yes

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