

2U2S SERVER PLATFORM



Thunder SX TN70E-B7106

B7106T70EV12HR / B7106T70EV8E4HR



Front View



- (12) 3.5"/2.5" Hot-Swap SSD/HDDs devices



- (8) 3.5"/2.5" Hot-Swap SSD/HDDs + (4) NVMe devices

Back View



- (1+1) 770W RPSU, 80 PLUS Platinum
- (2) Hot-Swap 2.5" Drive Bays

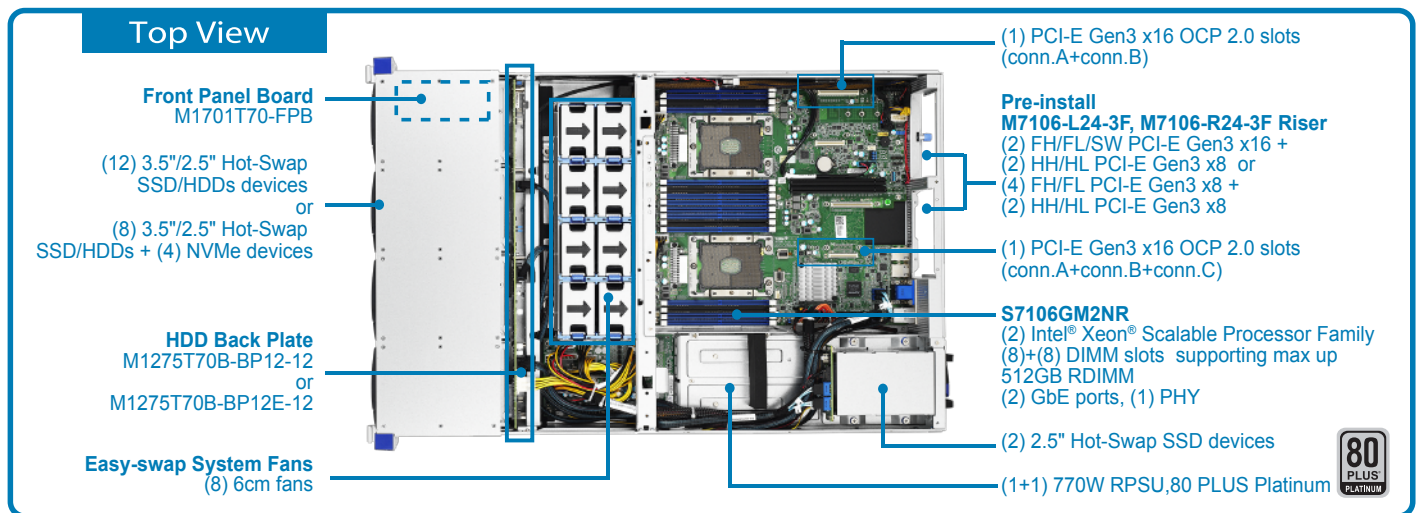
2U2S server platform designed for 3D rendering, technical computing applications

- Max up to (12) 3.5"/2.5" Hot-Swap SSD/HDDs devices at front and (2) 2.5" Hot-Swap SSD devices at rear
Or (8) 3.5"/2.5" Hot-Swap SSD/HDDs devices + (4) NVMe devices at front and (2) 2.5" Hot-Swap SSD devices at rear
- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor
- (8+8) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
- Supporting up to Up to 512GB RDIMM/ 1,024GB LRDIMM/ 768GB LRDIMM 3DS
*Follow latest Intel DDR4 Memory POR
- Max up to (2) PCI-E Gen3 x16 slots (w/ x8 link), (4) PCI-E Gen3 x8 slots
(1) PCI-E Gen3 x16 OCP 2.0 slots (conn.A + conn.B)
(1) PCI-E Gen3 x16 OCP 2.0 slots (conn.A+conn.B+conn.C)
- (2) GbE ports + (1) PHY port (via Intel® I210-AT + via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 770W RPSU, 80 PLUS Platinum

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TYAN Specifications



System	Form Factor	2U Rackmount
	Chassis Name	TN70E
	Dimension (H x W x D)	27.56" x 17.32" x 3.43" (700 x 440 x 87mm)
	Motherboard	S7106GM2NR
Front Panel	Buttons	(1) RST, (1) PWR w/ LED, (1) UID
	LEDs	(1) ID, (1) UID, (1) BMC event
	I/O Ports	(2) USB 2.0 ports
Front External Drive Bays	Type / Q'ty	(12) Hot-Swap 3.5"/2.5" Drive Bays
	HDD backplane support	(12) SAS 12Gb/s, SATA 6Gb/s, (4) NVMe ports
	Supported HDD Interface	(12) SATA 6Gb/s or (8) SATA 6Gb/s + (4) NVMe
Rear External Drive Bays	Type / Q'ty	(2) Hot-Swap 2.5" Drive Bays
	HDD backplane support	(2) SAS 12Gb/s, SATA 6Gb/s
	Supported HDD Interface	(2) SATA 6Gb/s
System Cooling Configuration	FAN	(8) 6cm fans
	Type	RPSU
Power Supply	Input Range	AC 100-127V/10A, AC 200-240V/5A
	Efficiency	80-PLUS Platinum
	Output Watts	770 Watts
	Redundancy	1+1
Processor	Supported CPU Series	(2) Intel® Xeon® Scalable Processor
	Thermal Design Power (TDP) wattage	Max up to 165W
Chipset	Chipset	Inte® C621
	Super I/O	-
Memory	Supported DIMM Qty	(8)+(8) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
	Capacity	Up to 512GB RDIMM/ 1,024GB LRDIMM/ 768GB LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
	Memory channel	6 Channels
	Memory voltage	1.2V
Expansion Slots	PCI-E	(2) sets of the following expansion combination: (2) PCI-E Gen3 x8 slots, (1) PCI-E Gen3 x16 slots (w/ x8/16 link)
	Pre-install TYAN Riser Card	M7106-L24-3F, M7106-R24-3F
	Pre-install TYAN OCP Riser Card	-
	Others	(1) PCI-E Gen3 x16 OCP 2.0 slots (conn.A+conn.B) (1) PCI-E Gen3 x16 OCP 2.0 slots (conn.A+conn.B+conn.C)
	PHY Controller	Realtek® RTL8211E

Storage	SATA	Connector	(2) Mini-SAS HD (8-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel RSTe)
Storage	sSATA	Connector	(2) SATA-III, (1) Mini-SAS HD (4-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel RST) only for 4 SATA devices
Graphic	M.2 connector	(1) M.2 connector (2242/2260/2280) by PCI-E interface	
	Connector type	D-Sub 15-pin	
Input /Output	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	
Input /Output	USB	(2) USB3.0 ports (2 at rear), (2) USB3.0 ports (2 at front)	
	COM	(1) DB-9 port (COM1)	
	VGA	(1) D-Sub 15-pin	
	RJ-45	(2) GbE ports, (1) PHY dedicated 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	IPMI 2.0 compliant baseboard management controller (BMC), Supports storage over IP and remote platform-flash, USB 2.0 virtual hub	
	AST2500 IPMI Feature	24-bit high quality video compression, 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, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI sleeping states S4,S5, ACPI 6.1	
Operating System	OS supported list	Please refer to our Intel OS supported list.	
Regulation	FCC (DoC)	Class A	
	CE (DoC)	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 Compliant	Yes	

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

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