

## 2GPU GPU PLATFORM



## Thunder SX TN76-B7102

B7102T76V12HR-2T-N



### ■ Front View



- 12 hot-swap 3.5" SAS 12G / SATA 6G

### ■ Back View



- (1+1) 1,200W RPSU, 80 PLUS Platinum

2U2S server platform with maximum memory support for 2GPGPU, technical computing and virtualization

- (12) 3.5"/2.5" Hot-Swap SSD/HDDs devices
- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor Family
- (12+12) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
- Supporting up to 768GB RDIMM/ 1,536GB LRDIMM/ 3,072GB RDIMM 3DS/LRDIMM 3DS  
\*Follow latest Intel DDR4 Memory POR\*
- Max up to (4) PCI-E Gen3 x8 slots (w/ x8/x0 link)  
(4) PCI-E Gen3 x16 slots (w/ x8/x16 link)
- (2) 10GbE posrts + (1) PHY port (via Intel® X550-AT2 + via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,200W RPSU, 80 PLUS Platinum

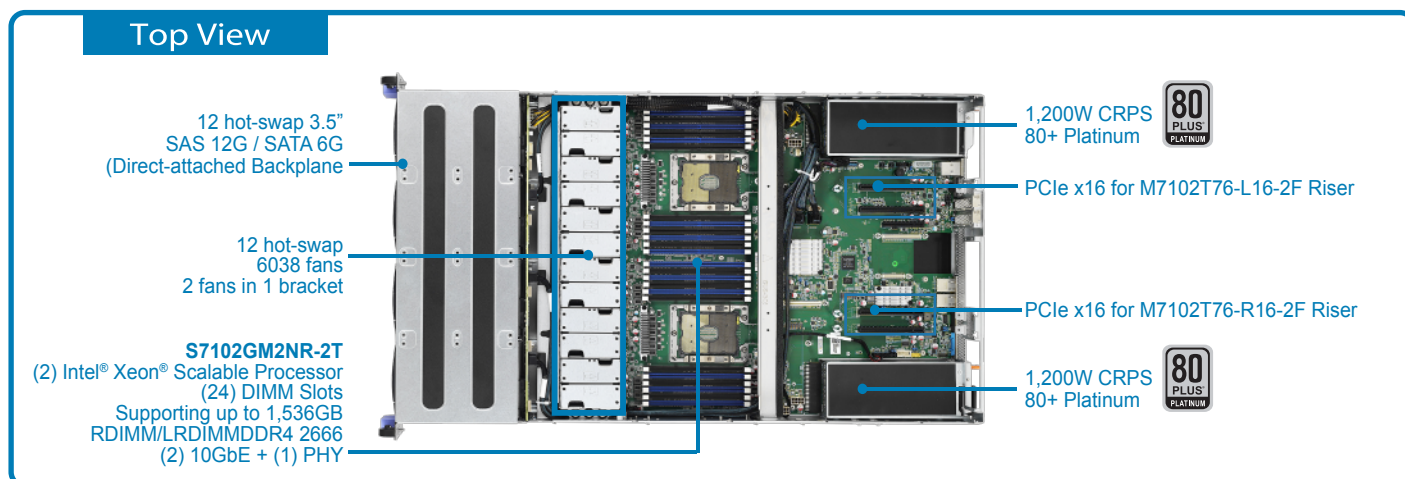


# Thunder SX TN76-B7102

B7102T76V12HR-2T-N

# TYAN

## Specifications



System	Form Factor	2U Rackmount
	Chassis Name	TN76
	Dimension (D x W x H)	29.9" x 17.2" x 3.4" (760 x 438 x 87.6mm)
	Motherboard	S7102GM2NR-2T
	Gross Weight	40 kg (88.5 lbs)
Front Panel	Buttons	(1) ID, (1) PWR w/ LED
	LEDs	(1) ID, (1) Warning
	I/O Ports	(1) USB 3.0 port
External Drive Bay	Type / Q'ty	3.5"/2.5" Hot-Swap SSD/HDDs/ (12)
	HDD backplane support	SAS 12Gb/s, SATA 6Gb/s
System Cooling Configuration	Supported HDD Interface	(10) SATA 6Gb/s
	FAN	(12) 6cm fans
Power Supply	Type	RPSU
	Input Range	AC 100-127V/12.47A , AC 200-240V/7.08A
	Efficiency	80-PLUS Platinum
	Output Watts	1,200 Watts
	Redundancy	1+1
Processor	Supported CPU Series	(2) Intel® Xeon® Scalable Processor Family
	Thermal Design Power (TDP) wattage	Max up to 165W
Chipset	Chipset	Intel® C621
	Super I/O	-
Memory	Supported DIMM Qty	(12)+(12) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
	Capacity	Up to 768GB RDIMM/ 1,536GB LRDIMM/ 3,072GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel® DDR4 Memory POR
	Memory channel	6 Channels
	Memory voltage	1.2V
Expansion Slots	PCI-E	(4) PCI-E Gen3 x8 slots (w/ x8/x0 link) (4) PCI-E Gen3 x16 slots (w/ x8/x16 link)
	Pre-install TYAN Riser Card	M7102T76-R16-2F, (2) M7102T76-L16-2F
	Pre-install TYAN OCP Riser Card	-
	Others	(1) PCI-E Gen3 x8 OCP 2.0 slot (con.A+con.C) (1) PCI-E Gen3 x8 storage mezz. Slot
LAN	Port Q'ty	(2) 10GbE ports, (1) PHY
	Controller	Intel® X550-AT2
	PHY Controller	Realtek® RTL8211E

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

Storage	SATA	Connector	(2) Mini-SAS HD (8-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
	sSATA	RAID	RAID 0/1/10/5 (Intel® RSTe)
		Connector	(2) 8-pin SATA/SATA-DOM, (1) Mini-SAS HD (4-ports)
Controller		Intel® C621	
M.2 connector	Speed	6.0 Gb/s	
	RAID	RAID 0/1/10/5 (Intel® RST)	
	RAID	RAID 0/1/10/5 (Intel® RST)	
Graphic	M.2 connector	(1) M.2 connector (2242) by PCI-E interface / (1) M.2 connector (2280) by PCI-E interface	
	Connector type	D-Sub 15-pin	
Input /Output	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	
TPM (Optional)	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	
System Monitoring	RJ-45	(2) 10GbE ports, (1) PHY dedicated for IPMI	
	TPM Support	Please refer to our TPM supported list.	
Server Management	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	
BIOS	Onboard Chipset	Onboard Aspeed AST2500	
	AST2300 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	AST2500 iKVM Feature	IPMI 2.0 compliant baseboard management controller (BMC), Supports storage over IP and remote platform-flash, USB 2.0 virtual hub	
Operating System	AST2500 IPMI Feature	24-bit high quality video compression, 10/100/1000 Mb/s MAC interface	
	Brand / ROM size	AMI / 32MB	
Regulation	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	
	OS supported list	Please refer to our AVL support lists	
Operating Environment	FCC (DoC)	Class A	
	CE (DoC)	Yes	
RoHS	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 6/6 Compliant	Yes	

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