

## 2U4N SERVER PLATFORM



## Thunder CX TN200-B7108

TN200-B7108-X4L / TN200-B7108-X4S



### Front View



**TN200-B7108-X4L**

• Total (12) 3.5" SSD/HDDs devices



**TN200-B7108-X4S**

• Total (24) 2.5" NVMe devices

### Back View



• Four blades in one chassis  
(1+1) 2,200W RPSU, 80 PLUS Platinum

## 2U4N server platform designed for hyper-converged and HPC workloads

- (3) 2.5" Hot-Swap SSD/HDDs devices (per blade) \*Total (12) devices or (6) 2.5" Hot-Swap NVMe devices (per blade) \*Total (24) devices
- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor (per blade)
- (8+8) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666 (per blade)
- Supporting up to 512GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS (per blade) \*Follow latest Intel DDR4 Memory POR
- (1) PCI-E Gen3 x16 slots default from M7108T200-L16-1L riser card (per blade)
- (1) PCI-E Gen3 x8 slots default from M7108T200-R8-1L riser card (per blade)
- (1) PCI-E Gen3 x16 OCP 2.0 slot (con.A+con.B+con.C) (per blade)
- (1) PHY port (via Realtek® RTL8211E) (per blade)
- Onboard BMC w/ IPMI and iKVM support (per blade)
- (1+1) 2,200W RPSU, 80 PLUS Platinum

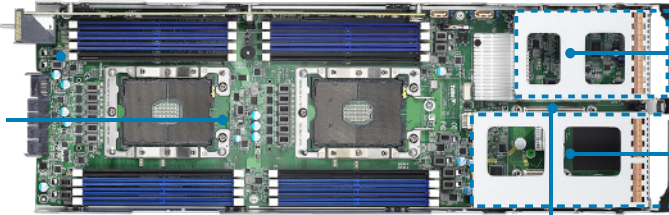
# Thunder CX TN200-B7108

TN200-B7108-X4L / TN200-B7108-X4S

**TYAN**  
Specifications

## Top View

(4) S7108GMR  
(4) blades in one chassis  
(2) Intel® Xeon® Scalable  
Processor  
(8)+(8) DIMM slots supporting  
max up 512GB RDIMM  
(1) PHY



Pre-install M7108T200-R8-1L  
(1) PCI-E Gen3 x8 slot

Pre-install M7108T200-L16-1L  
(1) PCI-E Gen3 x16 slot

(1) PCI-E Gen3 x16 OCP 2.0 slot  
(conn. A + conn. B + conn. C)

System	Form Factor	2U Rackmount
	Chassis Name	TN200
	Dimension (H x W x D)	33.43" x 17.47" x 3.42" (849 x 443.8 x 86.8mm)
	Motherboard	(4) S7108GMR (4 blades in one chassis)
	Board Dimension	6.79" x 20.26" (172.4 x 514.7mm)
	Blade Dimension (D x W x H)	20.66" x 7.06" x 1.6" (524.8 x 179.3 x 40.7mm)
	Feature	Four blades in one chassis
	Net weight	30 kg (66.5 lbs)
	Gross Weight	38 kg (84 lbs)
Front Panel	Buttons	(4) ID w/ LED, (4) PWR w/ LED
	I/O Ports	(4) Display ports (2 x USB2.0 + 1 x D-SUB VGA ports w/ via cable, per port )
External Drive Bay (per blade)	Type / Q'ty	3.5" Hot-Swap SSD/HDDs/ (3) *Total (12) devices (-X4L sku) 2.5" Hot-Swap NVMe/ (6) *Total (24) devices (-X4S sku)
	HDD backplane support	(12) SAS 12Gb/s, SATA 6.0Gb/s (-X4L sku) (24) SATA 6Gb/s, NVMe (-X4S sku)
	Supported HDD Interface	SATA 6Gb/s or NVMe
System Cooling Configuration	FAN	(4) 8cm fans
	Type	RPSU
Power Supply	Input Range	AC 200-240V/13A
	Efficiency	PFC, 80 plus Platinum
	Output Watts	2,200 Watts
	Redundancy	1+1
Processor (per blade)	Supported CPU Series	(2) Intel® Xeon® Scalable Processor
	Thermal Design Power (TDP) wattage	Max up to 125W
	System Bus	Up to 10.4/9.6 GT/s with Intel® UltraPath Interconnect (UPI) support
Chipset (per blade)	Chipset	Intel® C621
Memory (per blade)	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/ 2,048GB LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
	Memory channel	6 Channels
Expansion Slots (per blade)	Memory voltage	1.2V
	PCI-E	(1) PCI-E Gen3 x8 slot, (1) PCI-E Gen3 x16 slot
	Pre-install TYAN Riser Card	M7108T200-L16-1L, 1U PCI-E x16 riser card (left), M7108T200-R8-1L, 1U PCI-E x8 riser card (right)
LAN (per blade)	Others	(1) PCI-E Gen3 x16 OCP 2.0 slot (conn.A+conn.B+conn.C)
	Port Q'ty	(1) PHY
	PHY Controller	Realtek® RTL8211E

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

Storage (per blade)	sSATA	Connector	(2) 8-pin SATA DOM
		Controller	Intel® C621
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® RST)
		M.2 connector	(2) M.2 connector (22110/2280) by PCI-E interface
Graphic (per blade)		Connector type	D-Sub 15-pin
		Resolution	Up to 1920x1200
		Chipset	Aspeed AST2500
Input /Output (per blade)		USB	(2) USB3.0 (at rear)
		COM	(1) DB-9 COM port
		VGA	(4) Display ports (2 x USB2.0 + 1 x D-SUB VGA ports w/ via cable, per port, at front )
		RJ-45	(1) GbE port dedicated for IPMI
TPM (Optional)		TPM Support	Please refer to our TPM supported list.
		Chipset	Onboard Aspeed AST2500
System Monitoring (per blade)		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 (per blade)		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
		AST2500 IPMI Feature	24-bit high quality video compression, 10/100/1000 Mb/s MAC interface
BIOS (per blade)		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 (per blade)		OS supported list	Please refer to our AVL support lists.
		FCC (DoC)	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 Compliant	Yes

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