

## 4U2S 5-GPGPU WORKSTATION PLATFORM



### Thunder HX FT48T-B7105

B7105F48TV4HR-2T-G / B7105F48TV4HR-2T-N  
B7105F48TV8HR-2T-G



■ Front View

■ Back View



B7105F48TV8HR-2T-G

B7105F48TV4HR-2T-G  
B7105F48TV4HR-2T-N

Pedestal / 4U2S 5-GPU workstation platform designed for GPU accelerated technical computing

- Max up to (8) 3.5"/2.5" Hot-Swap SSD/HDDs devices + (3) 5.25" device bays
- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processors
- (6+6) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
- Up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS  
\*Follow latest Intel DDR4 Memory POR
- (6) PCIe x16 slots, supporting up to (5) GPU cards
- (2) 10GbE ports + (1) PHY port (via Intel® X550-AT2 + via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 2,000W Max. RPSU, 80 PLUS Platinum



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# TYAN

## Specifications

### Top View



(1+1) 2,000W Max. RPSU,  
80 PLUS Platinum

**S7105AGM2NR-2T**  
(2) Intel® Xeon® Scalable Processors  
(6)+(6) DIMM slots supporting  
max up 384 GB RDIMM  
(2) 10GbE ports, (1) PHY

(5) FH/FL PCI-E Gen3 x16 slots  
+  
(1) FH/HL PCI-E Gen3 x16 slot



**HDD Back Plate**  
M1237F48-BP6-4

**Front panel board**  
M1019-FPB

(3) 5.25" device bays +  
(4) 3.5"/2.5" Hot-Swap SSD/HDD  
or  
(3) 5.25" device bays +  
(8) 3.5"/2.5" Hot-Swap SSD/HDD

**System Fan**  
(5+1) 12cm fans ( for -N Sku)  
(3) 12cm fans ( for -G Sku)

System	Form Factor	4U Tower	
	Chassis Name	FT48T	
	Dimension (D x W x H)	27.5" x 16.8" x 6.9" (700 x 427 x 176mm)	
	Motherboard	S7105AGM2NR-2T	
	Gross Weight	40 kg (88.5 lbs)	
Front Panel	Buttons	(1) RST, (1) ID, (1) PWR w/ LED	
	LEDs	(1) HDD, (2) LAN, (1) ID, (1) System Event	
	I/O Ports	(2) USB 3.0 ports	
External Drive Bay	Q'ty / Type	(3) 5.25" device bays + (4) 3.5"/2.5" Hot-Swap SSD/HDD or (3) 5.25" device bays + (8) 3.5"/2.5" Hot-Swap SSD/HDD	
	HDD backplane support	SATA 6.0Gb/s	
	Supported HDD Interface	(4) SATA 6Gb/s or (8) SATA 6Gb/s	
System Cooling Configuration	FAN & Heat Sink	Passive cooler + GPU Airduct + (5+1) hot-swap 12cm fans (-N sku) Passive cooler + (3) hot-swap 12cm fans (-G sku)	
	Type	RPSU	
Power Supply	Input Range	AC 100-127V/24A, AC 220-240V/10A	
	Efficiency	80-PLUS Platinum	
	Output Watts	1,000 Watts (100-127Vac input), 1,968 Watts (220-240Vac input)	
	Redundancy	1+1	
Processor	Supported CPU Series	(2) Intel® Xeon® Scalable Processors	
	Thermal Design Power (TDP) wattage	Max up to 205W	
Chipset	Chipset	Intel® C621	
Memory	Supported DIMM Qty	(6)+(6) DIMM slots	
	DIMM Type / Speed	DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666	
	Capacity	Up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel® DDR4 Memory POR	
	Memory channel	6 Channels	
Expansion Slots	PCI-E	(5) FH/FL PCI-E Gen3 x16 slots (1) FH/HL PCI-E Gen3 x16 slot	
	Port Q'ty	(2) 10GbE ports, (1) GbE port dedicated for IPMI	
LAN	Controller	Intel® X550-AT2	
	PHY Controller	Realtek® RTL8211E	
Storage	SATA	Connector	(2) SATA-DOM
		Controller	Intel® C621
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® RSTe)

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

Storage	sSATA	Connector	(2) Mini-SAS HD (8-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® RST)
Input /Output	NVMe	Connector(M.2)	(2) 22110/2280 (by PCI-E & SATA interface)
		Connector type	D-Sub 15-pin
Graphic	Resolution	Resolution	Up to 1920x1200
		Chipset	Aspeed AST2500
		Chipset	Aspeed AST2500
Input /Output	COM	USB	(2) USB3.0 ports (at rear) (2) USB3.0 ports (at front)
		VGA	(1) D-Sub 15-pin (at front)
		RJ-45	(2) 10GbE ports, (1) GbE dedicated for IPMI
		TPM (Optional)	TPM Support
System Monitoring	Chipset	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
Server Management	Others	Others	Watchdog timer support
		Onboard Chipset	Onboard Aspeed AST2500
		AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC), Supports storage over IP and remote platform-flash, USB 2.0 virtual hub
BIOS	Feature	AST2500 iKVM Feature	24-bit high quality video compression, 10/100/1000 Mb/s MAC interface
		Brand / ROM size	AMI / 32MB
Operating System	OS supported list	OS supported list	Please refer to our Intel OS supported list.
		FCC (SDoC)	Class A
Regulation	CE (DoC)	CE (DoC)	Class A
		VCCI	Class A
		RCM	Class A
		CB/LVD	Yes
Operating Environment	Operating Temp.	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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