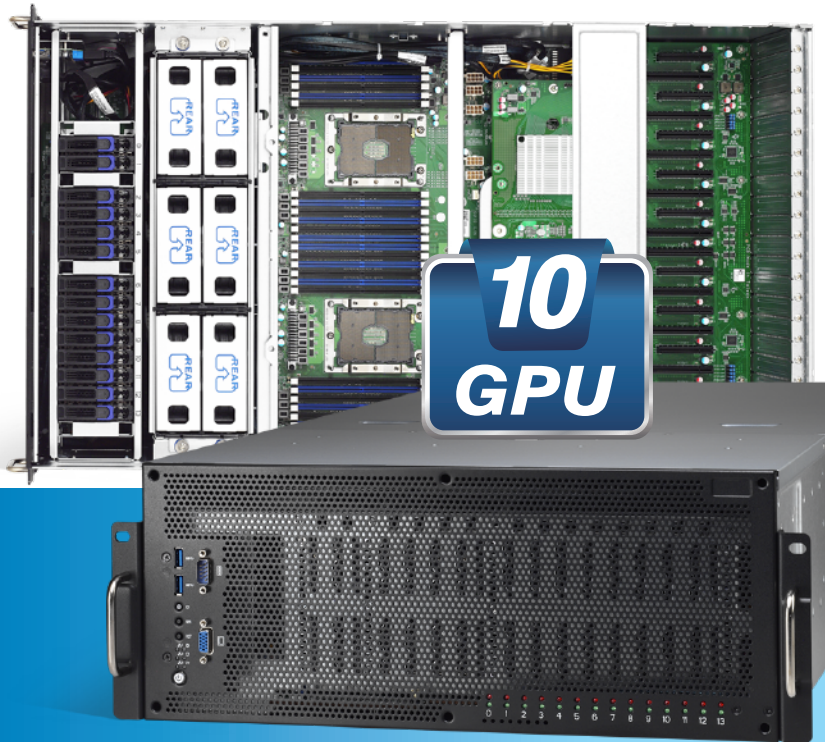


## 4U2S 10-GPGPU SERVER PLATFORM



### Thunder HX FA77-B7119

B7119F77V10E4HR-2T-N / B7119F77V14HR-2T-N



#### ■ Front View



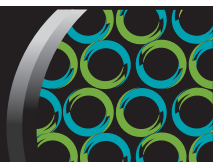
#### ■ Back View



• (3+1) 4,800W RPSU, 80-PLUS Platinum

4U2S 10-GPU server platform designed for GPUDirect RDMA applications, AI, and Deep Neural Network workloads

- Max up to (14) 2.5" Hot-Swap SSD/HDDs devices or (10) 2.5" Hot-Swap SSD/HDDs + (4) NVMe devices
- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor or (2) 2nd Gen Intel® Xeon® Scalable Processor
- (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
- (11) PCI-E Gen3 x16 slots
- (1) PCI-E Gen3 x16 Tyan mezzanine slot
- (2) 10GbE ports (Intel® X540-BT2) or (2) 10GbE ports (Intel® X550-BT2) + (1) dedicate IPMI port (Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support



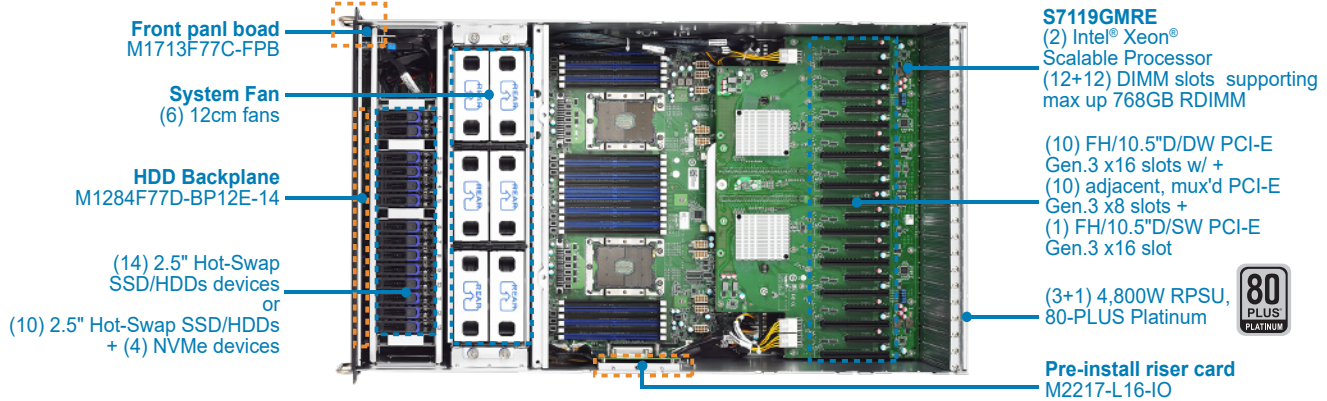
# Thunder HX FA77-B7119

B7119F77V10E4HR-2T-N / B7119F77V14HR-2T-N

# TYAN

## Specifications

### Top View



System	Form Factor	4U Rackmount
	Chassis Name	FA77
	Dimension (D x W x H)	30.31" x 17.24" x 6.93" (770 x 438 x 176mm)
	Motherboard	S7119GMRE
	Gross Weight	45 kg (99.5 lbs)
Front Panel	Net weight	26 kg (57.5 lbs)
	Buttons	(1) RST, (1) ID, (1) PWR w/ LED
	LEDs	(1) HDD, (1) ID, (3) LAN, (1) Warning
External Drive Bay	I/O Ports	(2) USB 3.0 ports
	Type / Q'ty	2.5" Hot-Swap SSD/HDDs/ (14) or 2.5" Hot-Swap SSD/HDD + NVMe/ (10) + (4)
	HDD backplane support	SAS 12Gb/s, SATA 6Gb/s, NVMe or SAS 12Gb/s, SATA 6Gb/s
	Supported HDD Interface	(14) SATA 6Gb/s or (10) SATA 6Gb/s + (4) NVMe
System Cooling Configuration	FAN	(6) 12cm fans
	Type	RPSU
Power Supply	Input Range	AC 100-127V/12.9A , AC 200-240V/9.5A
	Efficiency	80-PLUS Platinum
	Output Watts	3,000 Watts (100-127Vac input) / 4,800Watts (200-240Vac input)
	Redundancy	3+1
Processor	Supported CPU Series	(2) Intel® Xeon® Scalable Processor
	Thermal Design Power (TDP) wattage	Max up to 205W
Chipset	Chipset	Intel® C621
	Switch IC	(2) PLX PEX8796
Memory	Supported DIMM Qty	(12+12) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/LRDIMM 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	(11) PCI-E Gen3 x16 slots (1) PCI-E Gen3 x16 Ty an mezzanine slot
	Pre-install TYAN Riser Card	M2217-L16-IO
	Pre-install TYAN Mezz Card	M7076-X540-2T
	Others	-
LAN	Port Q'ty	(3)
	Controller	Intel® X540-AT2
	PHY	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
	RAID	RAID 0/1/10/5 (Intel® RSTe)	
	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)	
	NVMe Controller	(2) PCI-E x8 SFF-8612 OcuLink connectors for (4) NVMe ports	
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	
Input /Output	USB	(2) USB3.0 ports (at front)	
	COM	(1) DB-9 COM port (at front)	
	VGA	(1) D-Sub 15-pin (at front)	
	RJ-45	(2) 10GbE ports; (1) dedicate GbE port for IPMI	
TPM (Optional)	TPM Support	Please refer to our TPM supported list.	
	Chipset	Onboard Aspeed AST2500	
System Monitoring	Voltage	Monitors voltage for CPU, memory, chipset & power supply environment	
	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	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	
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.	
	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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