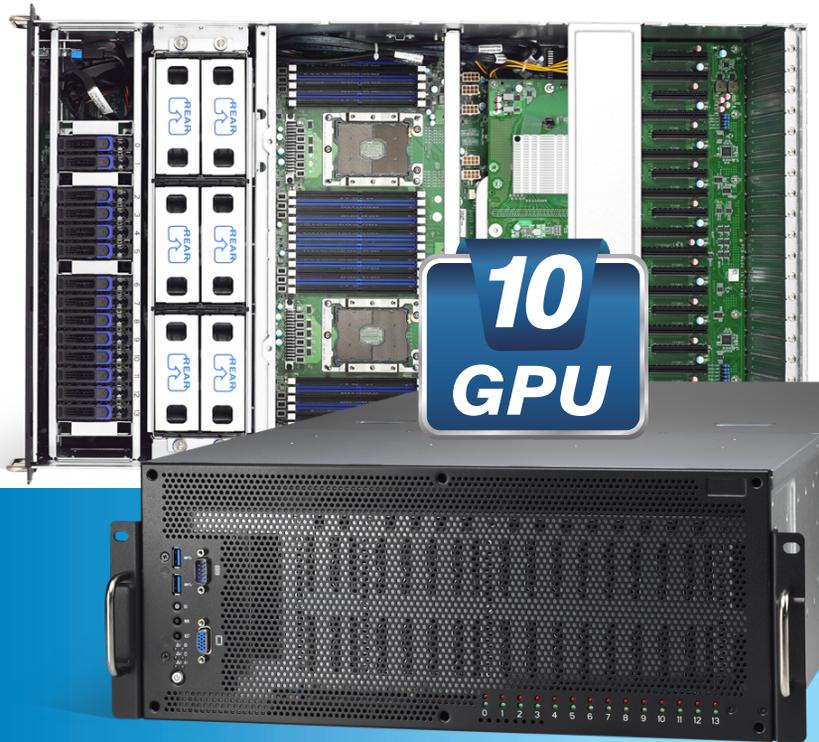


4U2S 10-GPGPU SERVER PLATFORM



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
- (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-AT2) + (1) dedicate IPMI port (Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (3+1) 4,800W RPSU, 80-PLUS Platinum

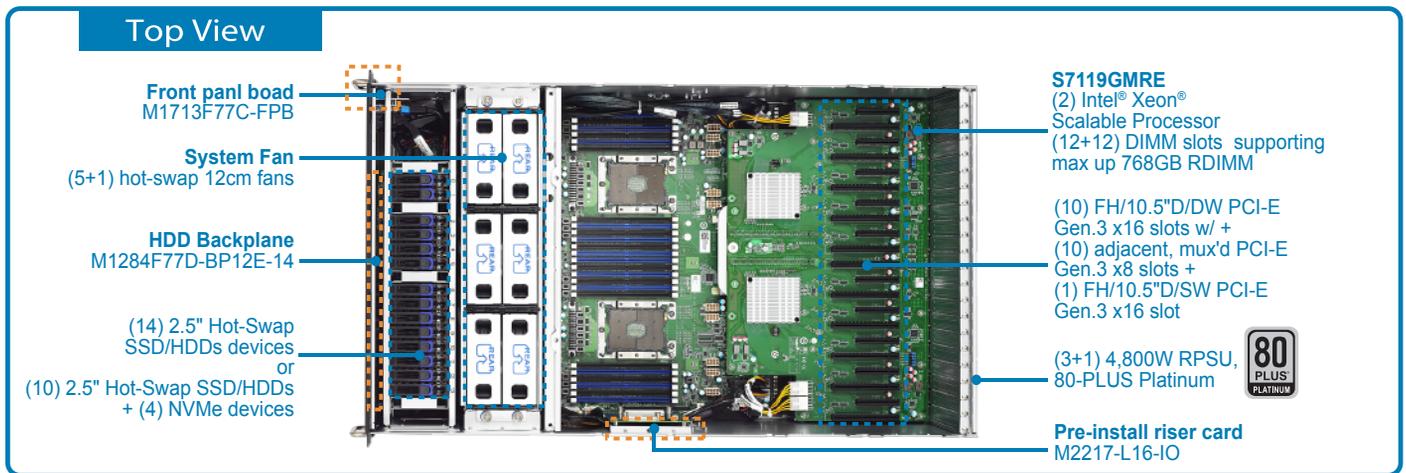


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B7119F77V10E4HR-2T-N / B7119F77V14HR-2T-N

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Specifications



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	Buttons	(1) RST, (1) ID, (1) PWR w/ LED	
	LEDs	(1) HDD, (1) ID, (3) LAN, (1) Warning	
Internal 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	
System Cooling Configuration	Supported HDD Interface	(14) SATA 6Gb/s or (10) SATA 6Gb/s + (4) NVMe	
	FAN	(5+1) hot-swap 12cm fans	
Power Supply	Type	RPSU	
	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)	
Processor	Redundancy	3+1	
	Supported CPU Series	(2) Intel® Xeon® Scalable Processor	
Chipset	Thermal Design Power (TDP) wattage	Max up to 205W	
	Chipset	Intel® C621	
Memory	Switch IC	(2) PLX PEX8796	
	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	
Expansion Slots	Memory voltage	1.2V	
	PCI-E	(11) PCI-E Gen3 x16 slots (1) PCI-E Gen3 x16 Tyan mezzanine slot	
	Pre-install TYAN Riser Card	M2217-L16-IO	
LAN	Pre-install TYAN Mezz Card	M7076-X540-2T	
	Port Q'ty	(3)	
Storage	Controller	Intel® X540-AT2	
	PHY	Realtek® RTL8211E	
	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
	NVMe	Speed	6.0 Gb/s
		RAID Controller	RAID 0/1/10/5 (Intel® RST)
Graphic	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)	
TPM (Optional)	RJ-45	(2) 10GbE ports; (1) dedicate GbE port for IPMI	
	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	
Server Management	Others	Watchdog timer support	
	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	
BIOS	AST2500 IPMI Feature	24-bit high quality video compression, 10/100/1000 Mb/s MAC interface	
	Brand / ROM size	AMI / 32MB	
Operating System	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 Intel OS supported list.	
Regulation	FCC (DoC)	Class A	
	CE (DoC)	Class A	
	VCCI	Class A	
	RCM	Class A	
Operating Environment	CB/LVD	Yes	
	Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)	
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)	
RoHS	In/Non-operating Humidity	90%, non-condensing at 35° C	
	RoHS 6/6 Complaint	Yes	

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

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