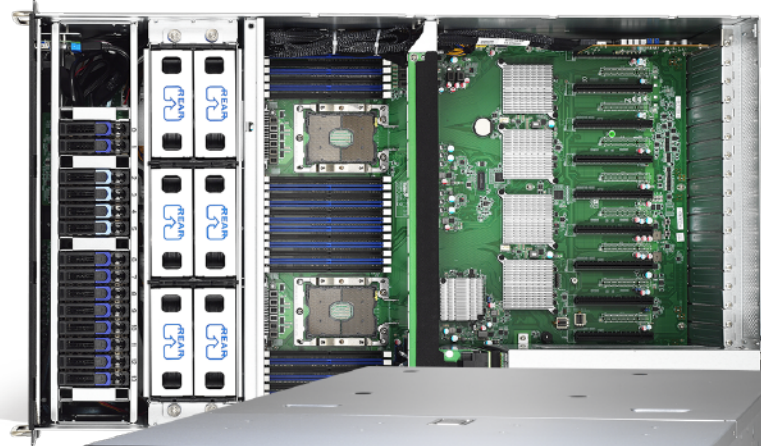


4U2S 8-GPGPU SERVER PLATFORM



Thunder HX FT77D-B7109

B7109F77DV10E4HR-2T-N / B7109F77DV14HR-2T-N
B7109F77DV14HR-2T-NF



Front View



- Max up to (14) 2.5" Hot-Swap SSD/HDDs devices or (10) 2.5" Hot-Swap SSD/HDDs + (4) NVMe devices

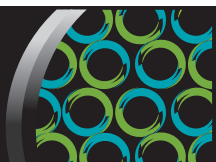
Back View



- (2+1) 2,000 Watts (100-127Vac input)/ 3,200 Watts (200-240Vac input) RPSU, 80 PLUS Platinum

4U2S 8-GPU server platform designed for embarrassingly parallel 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 Family (Socket-F support only for -NF SKU)
- (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
- (9) PCI-E Gen3 x16 slots
- (2) PCI-E Gen3 x8 slots (one for Tyan OCP riser card only)
- (2) 10GbE ports + (1) PHY port (via Intel® X550-AT2 + via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (2+1) 2,000 Watts (100-127Vac input)/3,200 Watts (200-240Vac input) RPSU, 80 PLUS Platinum

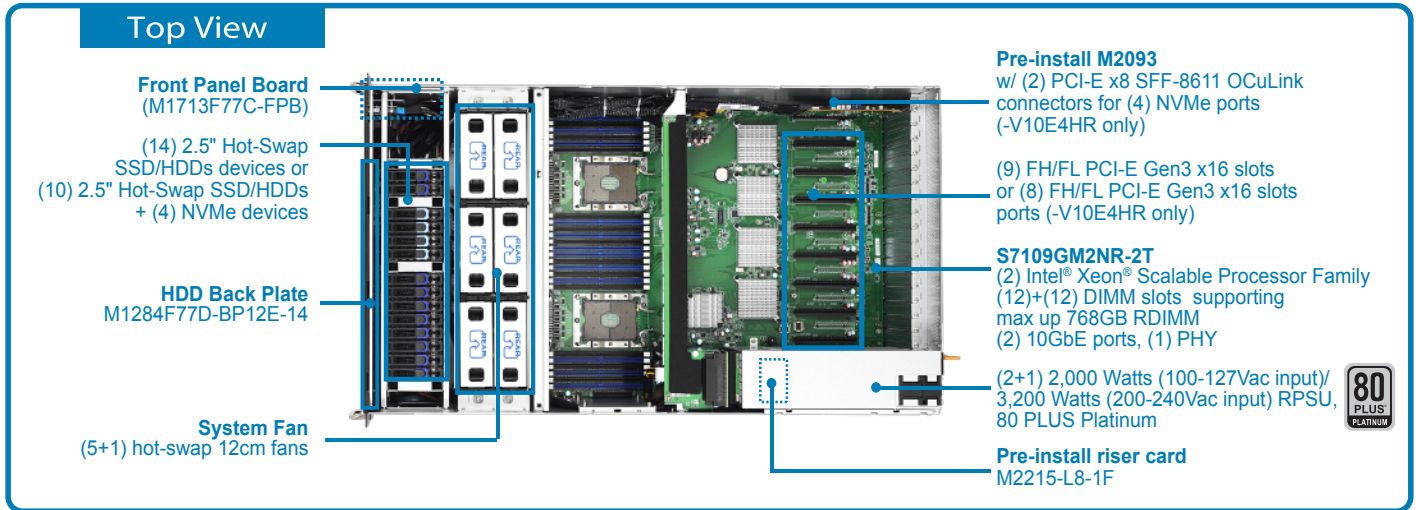


Thunder HX FT77D-B7109

B7109F77DV10E4HR-2T-N / B7109F77DV14HR-2T-N
B7109F77DV14HR-2T-NF

TYAN

Specifications



System	Form Factor	4U Rackmount
	Chassis Name	FT77D
	Dimension (D x W x H)	30.31" x 17.24" x 6.93" (770 x 438 x 176mm)
	Motherboard	S7109GM2NR-2T
	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) IPMI/Warning
	I/O Ports	(2) USB 3.0 ports
Internal Drive Bay	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	(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	2,000 Watts (100-127Vac input) / 3,200Watts (200-240Vac input)
Processor	Supported CPU Series	(2) Intel® Xeon® Scalable Processor Family (Socket-F support only for -NF SKU)
	Thermal Design Power (TDP) wattage	Max up to 205W
	Chipset	Intel® C621
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	(9) PCI-E Gen3 x16 slots or (8) PCI-E Gen3 x16 slots (-V10E4HR only) (2) PCI-E Gen3 x8 slots (one for Tyan OCP riser card only)
	Pre-install TYAN Riser Card	M2215-L8-1F
	Pre-install TYAN Mezz Card	M2093 w/ (2) PCI-E x8 SFF-8611 OcuLink connectors for (4) NVMe ports (-V10E4HR only)
	Others	-
LAN	Port Q'ty	(2) 10GbE ports, (1) PHY
	Controller	Intel® X550-AT2
	PHY Controller	Realtek® RTL8211E

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)
Graphic	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)
Input /Output	M.2 connector		-
	Connector type		D-Sub 15-pin
	Resolution		Up to 1920x1200
	Chipset		Aspeed AST2500
TPM (Optional)	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) PHY dedicated for IPMI
System Monitoring	TPM Support		Please refer to our TPM supported list.
	Chipset		Onboard Aspeed AST2500
	Voltage		Monitors voltage for CPU, memory, chipset & power supply
	Temperature		Monitors temperature for CPU & memory & system environment
Server Management	LED (On system front panel)		Over temperature warning indicator, Fan & PSU fail LED indicator
	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
	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 AVL support lists
Regulation	FCC (DoC)		Class A
	CE (DoC)		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 Complaint		Yes

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

MiTAC Computing Technology Corp
TYAN Business Unit

USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Taiwan
Tel: +886-3-327-5988
Fax: +886-3-327-6312

China
Shanghai Tel: +86-021-61431188 #1361
China Tel: +86-010-62381108 #2485

Japan
Tel: +81-3-3769-8311
Fax: +81-3-3769-8328

EMEA
Tel: +44 07540328523
Email: robin.daunter@tyan.com