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4U QUAD-SOCKET 4GPGPU PLATFORM



FT76-B7922

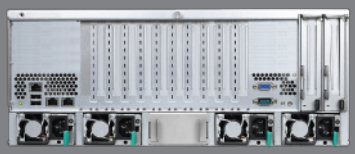
B7922F76U8HR-4T-HE-X / B7922F76U8HR-4T
B7922F76U8HR-2T

Front View



• (8) hot-swap 2.5" HDDs support SAS 12Gb/s/ SATA 6Gb/s

Back View



• (4) FH/ FL PCI-E Gen3 x16 slots
• (2) FH/ FL PCI-E Gen3 x8 slots
• (2) Hot-Swap FH/ FL PCI-E Gen3 x8 slots
• (1) FH/ HL PCI-E Gen2 x8 slot
or
• (10) FH/ FL PCI-E Gen3 x8 slots
• (2) Hot-Swap FH/ FL PCI-E Gen3 x8 slots
• (1) FH/ FL PCI-E Gen2 x8 slot
• (3+1) 3,000 Watts (100-127Vac input) / 4,800 Watts(200-240Vac input) RPSU 80-plus Platinum

4U4S Server Platform Designed for up to 4x Coprocessor Modules Deployment

- Quad Socket R1 supports (4) E7-8800/E7-4800 v3 series processors
- Intel® C602-J PCH
- (96) DIMM slots
  RDIMM/LRDIMM/LRDIMM 3DS DDR4 Lockstep Mode – 1333, 1600,1866
  Up to 3,072GB RDIMM/ 6,144GB LRDIMM/ 12,288GB LRDIMM 3DS
  *Follow latest Intel DDR4 Memory POR
- (4) Full-Height/ Full-Length PCI-E Gen3 x16 slots
  (2) Full-Height/ Full-Length PCI-E Gen3 x8 slots
  (2) Hot-Swap Full-Height/ Full-Length PCI-E Gen3 x8 slots
  (1) Full-Height/ Full-Length PCI-E Gen2 x8 slot
  (-HE-X SKU)
- (8) Hot-swap 2.5" SAS 12Gb/s/ SATA 6Gb/s HDDs
- (4) 10GbE (via Intel® X540-BT2 & Pre-install P1210C-2T TYAN Mezz Card) (-4T SKU)
  (1) PHY (via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (3+1) 3,000 Watts (100-127Vac input) / 4,800 Watts (200-240Vac input) RPSU 80-plus Platinum

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B7922F76U8HR-4T-HE-X / B7922F76U8HR-4T
B7922F76U8HR-2T

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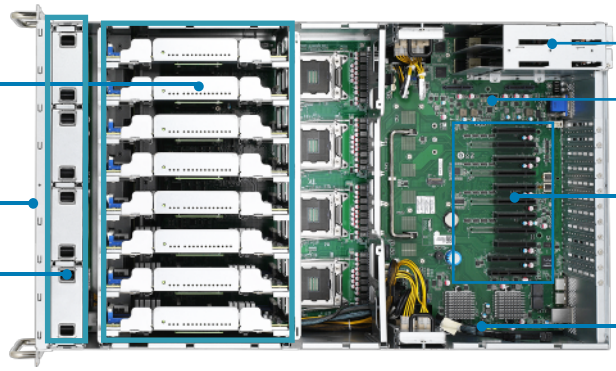
Specifications

Top View



System	Form Factor	4U Rackmount
	Chassis Name	FT76
	Dimension (H x W x D)	29.92" x 17.17" x 6.93" (760 x 436 x 176mm)
	Motherboard	S7922GM2NR-2T
	Gross Weight	41.3 kg
Front Panel	Buttons	(1) PWR / (1) RST / (1) ID
	LEDs	(1) HDD / (2) LAN / (1) ID / (1) IPMI/Warning
	I/O Ports	(2) USB ports
External Drive Bay	Type / Q'ty	2.5" Hot-Swap / (8)
	HDD backplane support	SAS 12Gb/s/ SATA 6Gb/s
	Supported HDD Interface	(8) 2.5" HDDs w/SAS 12Gb/s/ SATA 6Gb/s
System Cooling Configuration	FAN	(4) hot-swap 9cm fans
Power Supply	Type	RPSU
	Input Range	200-240V AC/ 9.48A 100-217V AC/ 12.47A
	Efficiency	80-PLUS Platinum
	Output Watts	3,000 Watts (100-127Vac input) 4,800 Watts (200-240Vac input)
	Redundancy	3+1
Processor	Supported CPU Series	Intel® Xeon® Processor E7-8800/E7-4800 v3 series processors
	Socket Type / Q'ty	Socket R1 / (4)
	Thermal Design Power (TDP) wattage	Max up to 165W
	System Bus	3 Intel 9.6/ 8.0/ 6.4 GT/s with Intel® QuickPath Interconnect (QPI) support
Chipset	Chipset	Intel® C602-J
	Super I/O	-
Memory	Supported DIMM Qty	(96) DIMM slots
	DIMM Type / Speed	RDIMM/LRDIMM/LRDIMM 3DS DDR4 Lockstep Mode – 1333,1600,1866
	Capacity	Up to 3,072GB RDIMM/ 6,144GB LRDIMM/ 12,288GB LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
	Memory channel	2 Channels per Memory Buffer
	Memory voltage	1.2V
Expansion Slots	PCI-E	(2) PCI-E Gen3 x8 slots / (4) PCI-E Gen3 x16 slots / (1) PCI-E Gen2 x8 slot / (2) hot-swap PCI-E Gen3 x8 slots (-HE-X SKU) (1) PCI-E Gen2 x8 slot / (2) hot-swap PCI-E Gen3 x8 slots / (10) PCI-E Gen3 x8 slots (-4T/-2T SKU)
	Pre-install TYAN Riser Card	M7922F76-HSP, Hot-swap (2) PCI-E Gen.3 x8 slots / M7922F76-IO-HE, (2)PCI-E Gen3 x8 slots; (1)PCI-E Gen2 x8; (4)PCI-E Gen3 x16 slots
	Pre-install TYAN Mezz Card	P3250USR-8I / P1210C-2T (-4T SKU) P3250USR-8I (-2T SKU)
LAN	Port Q'ty	(4) 10GbE (-4T SKU) or (2) 10GbE (-2TSKU) (1) PHY
	Controller	Intel® X540-BT2
	PHY	Realtek® RTL8211E
	Pre-install TYAN LAN Mezz Card (-4T SKU)	P1210C-2T Intel® (2) 10GbE ports TYAN Mezz LAN Card

Storage	SAS	Pre-install TYAN SAS Mezz Card	P3250USR-8I LSI SAS Mezz Card
		Connector	(2) Mini-SAS HD connectors (totally support 8 ports)
		Controller	LSI SAS3008
		Speed	12.0 Gb/s
		RAID	RAID 0/ 1/ 1E/ 10 (LSI Integrated RAID)
	SATA	Connector	(2) SATA
		Controller	Intel® C602-J
		Speed	(1) 6.0 Gb/s (blue color), (1) 3.0 Gb/s (black color)
		RAID	RAID 0/1/10/5 (Intel® RST)
	Others		(2) SATA DOM 3G/ (1) M.2 NGFF 6G
Graphic	Connector type		D-Sub 15-pin
	Resolution		Up to 1920x1200
	Chipset		Aspeed AST2400
Input /Output	USB		(4) ports (2 at front, 2 at rear)
	COM		(1) DB-9 COM port
	VGA		(1) D-Sub 15-pin port
	RJ-45		(4) 10GbE, (1) PHY dedicated for IPMI (-4T SKU) or (2) 10GbE, (1) PHY dedicated for IPMI (-2T SKU)
System Monitoring	Chipset		Onboard Aspeed AST2400
	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	Onboard Chipset		Onboard Aspeed AST2400
	AST2400 IPMI Feature		IPMI 2.0 compliant baseboard management controller (BMC) / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
	AST2400 iKVM Feature		24-bit high quality video compression / 10/100 Mb/s MAC interface
BIOS	Brand / ROM size		AMI / 16MB
	Feature		User-configurable H/W monitoring / SMBIOS 2.7/PnP/Wake on LAN / PXE boot support / ACPI 3.0/ACPI sleeping states S4,S5
Operating System	OS supported list		Please refer to our Intel OS supported list.
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
	Note		*Intel® Xeon® E7-8800 v3 series processors can be supported with limited thermal condition(-2T/-4T SKU) *Recommend to fully populate 4x GPU/coprocessor modules for best thermal performance(-HE-X SKU)
RoHS	RoHS 6/6 Complaint		Yes

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