

4U GPGPU SERVER PLATFORM



FT48-B7025

B7025F48W4H / B7025F48W8HR (BTO)



■ Front View



■ Back View



4U dual-socket SMP server implementation for GPGPU applications

- Dual LGA1366 sockets support up to (2) Intel® Xeon® processors 5500 series (codenamed Nehalem-EP)
- Support QPI 6.4/ 5.86/ 4.8 GT/s
- Dual Intel® 5520 IOH
- Intel® ICH10R South Bridge
- (8) 240-pin DDR3 DIMM slots support up to 64GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (4) Full-Height/ Full-Length PCI-E Gen.2 x16 slots supporting (4) double-deck GPU adapters
- (1) Full-Height/ Full-Length PCI-E Gen.2 x8 slot (w/ x4 link)
- (1) Full-Height/ Full-Length PCI-E Gen.2 x4 slot
- (1) Full-Height/ Full-Length PCI 32/33MHz slot
- Onboard Audio
- (2) GbE LAN
- TPM 1.2 (Trusted Platform Module) support
- (4/8) Hot-swap 3.5" SAS HDDs w/ RAID 0, 1, 1E support
- Onboard BMC w/ IPMI and iKVM support
- (2+0) Redundancy ready, ERP1U high-efficiency 1,300W PSU w/ PFC, 80-PLUS Certified (B7025F48W4H)
- (2+1) Redundant, ERP1U high-efficiency 1,300W PSU w/ PFC, 80-PLUS Certified (B7025F48W8HR)



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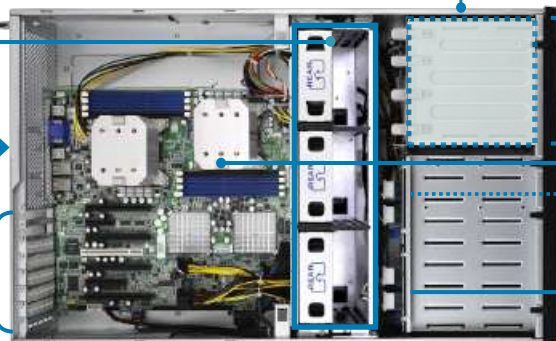
Top View

Hot-swap System FANs
(3) 12038 as default

Allocated at lowest deck
(2+1) EPS1U 1,
1300W PSU, 80-PLUS
(2) installed as default



(8) Expansion slots
mechanically available
Support up to (4) Full-sized
GPU cards



M1018
front panel board
(Buttons, LEDs, USB ports)

(3) 5.25" media bays

S7025WAGM2NR-B
(2) LGA1366 sockets
(8) R-DDR3 1333/1066/800MHz
Max.64GB, (2) GbE ports

M1216-P
4-port SAS backplane
(1) M1216-P as default
Add the 2nd M1216-P for
another (4) expanded HDDs

System	Form Factor	4U Rackmount
	Chassis Model	FT48
	Dimension (H x W x D)	6.9" x 16.7" x 27.6" (176 x 425 x 700mm)
	Motherboard	S7025WAGM2NR-B
Front Panel	Buttons	(1) RST / (1) ID / (1) PWR / (1) NMI
	LEDs	(1) Power / (1) ID / (2) LAN / (1) HDD (1) Warning
	I/O Ports	(2) USB ports
External Drive Bay	Type / Q'ty	3.5" Hot-Swap / (4) Extra (4) hot-swap trays available for add-on
	Supported HDD Interface	SAS 3.0Gb/s
System Cooling Configuration	FAN	(3) 12cm fans
Power Supply	Type	ERP1U swappable / (2+0) (B7025F48W4H), ERP1U hot-swap / (2+1) (B7025F48W8HR)
	Input Range	Full-range AC(100-240V)
	Frequency	47 - 63 Hertz
	Output Watts	1,300 Watts (2x 650W)
	Efficiency	PFC / 80-plus
Processor	Supported CPU Series	Intel® Xeon® processor 5500 series
	Socket Type / Q'ty	LGA1366 / (2)
	Thermal Design Power (TDP) wattage	Max. up to 95W
Chipset	System Bus	Up to 4.8/ 5.86/ 6.4GT/s with Intel QuickPath Interconnect (QPI) support
	Chipset	(2) Intel® 5520 / ICH10R
Memory	Supported DIMM Qty	(4+4) DIMM slots
	DIMM Type / Speed	DDR3 800/1066/1333 RDIMM/UDIMM
	Capacity	Up to 64GB RDIMM / 32GB UDIMM
	Memory channel	6 Channels (3 Channels per CPU)
Expansion Slots	Memory voltage	1.5V
	PCI-E	(4) FH/FL PCI-E Gen.2 x16 slots (1) FH/FL PCI-E Gen.2 x8 slot (w/ x4 link) (1) FH/FL PCI-E Gen.2 x4 slot
LAN	PCI	(1) FH/FL PCI 32/33MHz slot
	Port Q'ty	(2)
Storage	Controller	Intel® 82574L
	SAS	Controller LSI SAS1068E
	RAID	Speed 3.0 Gb/s RAID 0/1/1E (LSI Integrated RAID)

Storage	Controller	ICH10R
	SATA Speed	3.0 Gb/s
	RAID	RAID 0/1/10/5 (Intel® Matrix RAID)
Graphic	Connector type	D-Sub 15-pin
	Resolution	1600x1200@60Hz
Audio	Chipset	Aspeed AST2050
	Chipset	Realtek ALC262
TPM	Feature	HDA 2.0 spec. compliant
	Chipset	Infineon SLB9635
Input /Output	Version	TPM v1.2
	USB	(7) USB2.0 ports (4 at rear, 2 at front, 1 type A onboard)
System Monitoring	COM	(1) DB-9 port
	VGA	(1) D-Sub 15-pin VGA port
	RJ-45	(2) GbE ports
Server Management	Chipset	Winbond W83793G
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & system environment
	LED (On system front)	Fan fail LED indicator Over temperature warning indicator
BIOS	Others	Watchdog timer support
	Onboard Chipset	Onboard Aspeed AST2050
	AST2050 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) BIOS update USB 2.0 virtual hub
Operating System	AST2050 iKVM Feature	24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces
	Brand / ROM size	AMI / 4MB
Regulation	Feature	Plug and Play (PnP) PCI2.3 /w/WM2.0 /SMBIOS2.3 /PXE boot ACPI 2.0 power management Power on mode after power recovery Auto-configurable H/W monitoring Auto-configurable of hard disk types Multiple boot options
	OS supported list	Please refer to our OS supported list.
Operating Environment	FCC (DoC)	Class A
	CE (DoC)	Yes
RoHS	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 6/6 Complaint	Yes	

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TYAN Business Unit

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