

4U GPGPU SERVER PLATFORM



FT72-B7015

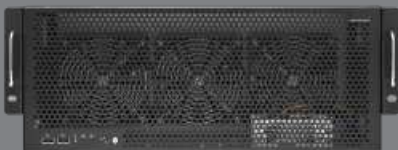
B7015F72V2R (BTO)

B7015F72V2R-N625/-N825 (BTO)

B7015F72V2R-N427/-N627/-N827 (BTO)



■ Front View



■ Back View



4U dual-socket SMP server implementation for GPGPU applications

- Dual LGA1366 sockets support up to (2) Intel® Xeon® processors 5500/5600 series (codenamed Nehalem-EP/Westmere-EP)
- Support QPI 6.4/ 5.86/ 4.8 GT/s
- Dual Intel® 5520 IOH
- Intel® ICH10R South Bridge
- (18) 240-pin DDR3 DIMM slots support up to 144GB R-DDR3 1333/1066/800MHz w/ ECC memory
- Basic SKU (B7015F72V2R):
 - (8) FH/FL PCI-E Gen.2 x16 slots supporting up to (8) double-deck GPU adapters
 - (2) FH/FL PCI-E Gen.2 x16 slots (w/ x4 link)
 - (2) FH/FL PCI-E Gen.2 x1 slots
 - (1) FH/FL PCI 32/33MHz slot
- Tesla M2050 bundled SKU (B7015F72V2R-N625/-N825)
 - NVIDIA® Tesla™ M2050 double-deck GPU module
- Tesla M2070 bundled SKU (B7015F72V2R-N427/-N627/-N827)
 - (4/6/8) NVIDIA® Tesla™ M2070 double-deck GPU module
- (4) GbE LAN
- (2) Internal 2.5" SATA HDDs w/ RAID 0, 1 support
- Onboard BMC w/ IPMI and iKVM support
- (2+1) Redundant, ERP1U high-efficiency 2,400W PSU (@220V) w/ PFC, 80-PLUS Silver Certified

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TYAN
Specifications

Top View



System	Form Factor	4U Rackmount
	Chassis Model	FT72
	Dimension (H x W x D)	6.9" x 17.24" x 27.95" (176 x 438 x 710mm)
	Motherboard	S7015GM4NR
	Gross Weight (est.)	27 kg (Bare system only)
Front Panel	Buttons	(1) RST / (1) PWR (w/ LED)
	LEDs	(1) HDD / (1) Warning
	I/O Ports	(2) USB ports
External Drive Bay	Type / Q'ty	2.5" Internal / (2)
	Supported HDD Interface	SATA-II 3.0Gb/s
System Cooling Configuration	FAN	(3) 12cm fans
Power Supply	Type	ERP1U hot-swap / (2+1)
	Input Range	Full-range AC(100-240V)
	Frequency	47 - 63 Hertz
	Output Watts	2,400 Watts (2x 1,200W @ 220Vac)
Processor	Efficiency	PFC / 80-plus Silver
	Supported CPU Series	Intel® Xeon® processor 5500/5600 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	(9+9) DIMM slots
	DIMM Type / Speed	DDR3 800/1066/1333 RDIMM/UDIMM
	Capacity	Up to 144GB RDIMM / 48GB UDIMM
	Memory channel	6 Channels (3 Channels per CPU)
Expansion Slots (B7015F72V2R)	Memory voltage	1.5V
	PCI-E	(8) FH/FL PCI-E Gen.2 x16 slots (2) FH/FL PCI-E Gen.2 x16 slots (w/ x4 link) (2) FH/FL PCI-E Gen.2 x1 slots
	PCI	(1) FH/FL PCI 32/33MHz slot
	Port Q'ty	(4)
LAN	Controller	Intel 82574L
	Controller	ICH10R
Storage	SATA	Speed 3.0 Gb/s
	RAID	RAID 0/1 (Intel® Matrix RAID)

Graphic	Connector type	D-Sub 15-pin
	Resolution	1600x1200@60Hz
	Chipset	Aspeed AST2050
Input /Output	USB	(4) USB2.0 ports (2 at rear, 2 at front)
	VGA	(1) D-Sub 15-pin VGA port
System Monitoring	RJ-45	(4) GbE ports
	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
Server Management	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
	AST2050 iKVM Feature	24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces
BIOS	Brand / ROM size	AMI / 4MB
	Feature	Plug and Play (PnP) PCI2.3 / WfM2.0 / SMBIOS2.3 / PXE boot ACPI 2.0 power management Power on mode after power recovery User-configurable H/W monitoring Auto-configurable of hard disk types Multiple boot options
Operating System	OS supported list	Please refer to our 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
RoHS	RoHS 6/6 Complaint	Yes

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

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