

1U1S 4-GPGPU SERVER PLATFORM



Thunder HX GA88-B5631

B5631G88V2HR-2T-N



Front View



- (2) 2.5" Hot-Swap SSD/HDDs devices

Back View



- (1+1) 1,600W RPSU, 80 PLUS Platinum

1U1S 4-GPU server platform designed for GPUDirect RDMA applications

- (2) 2.5" Hot-Swap SSD/HDDs devices
- Single LGA3647 socket supports (1) Intel® Xeon® Scalable Processor Family
- (12) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
- Support up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS
- *Follow latest Intel DDR4 Memory POR*
- Max up to (5) PCI-E Gen3 x16 slots
- (2) 10GbE ports + (1) PHY port (via Intel® X550-AT2 + Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,600W RPSU, 80 PLUS Platinum



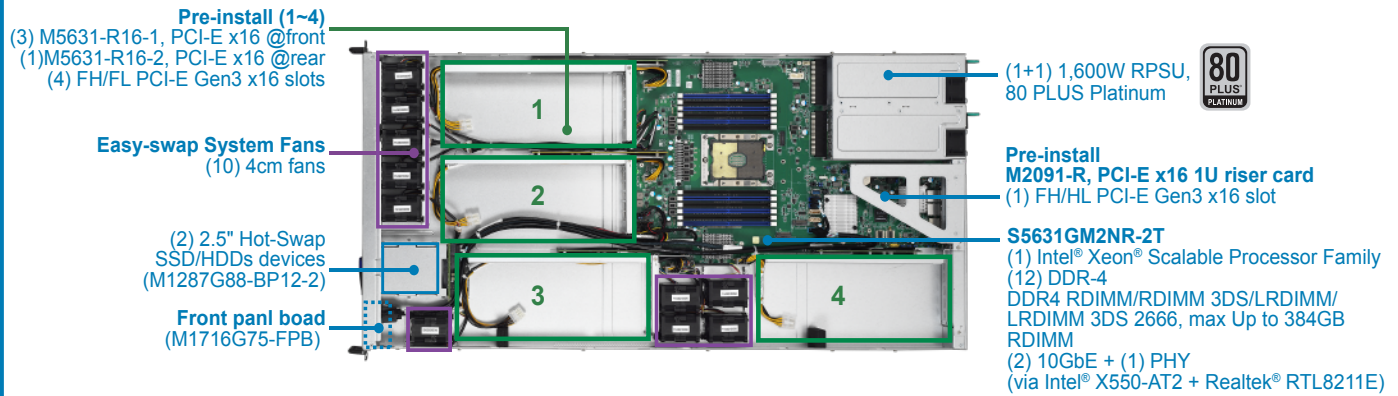
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Specifications

Top View



System	Form Factor	1U Rackmount
	Chassis Name	GA88
	Dimension (D x W x H)	34.5" x 17.24" x 1.7" (885 x 438 x 43mm)
	Motherboard	S5631GM2NR-2T
	Gross Weight	26.5 kg (58.5 lbs)
Front Panel	Buttons	(1) PWR, (1) RST, (1) ID
	LEDs	(1) PWR, (1) HDD, (2) LAN, (1) IPMI/Warning
External Drive Bay	I/O Ports	(2) USB 3.0 port
	Type / Q'ty	2.5" Hot-Swap SSD/HDD/ (2)
	HDD backplane support	SAS 12Gb/s, SATA 6Gb/s
System Cooling Configuration	Supported HDD Interface	(2) SATA 6Gb/s
	FAN	(10) 4cm fans
Power Supply	Type	RPSU
	Input Range	AC 100-127V/12A , AC 200-240V/9.48A
	Efficiency	80-PLUS Platinum
	Output Watts	1,600 Watts
Processor	Redundancy	1+1
	Supported CPU Series	(1) Intel® Xeon® Scalable Processor Family
Chipset	Thermal Design Power (TDP) wattage	Max up to 165W
	Chipset	Intel® C621
	Switch IC	(2) PLX PEX8747
Memory	Supported DIMM Qty	(12) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
	Capacity	Up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel® DDR4 Memory POR
	Memory channel	6 Channels
Expansion Slots	Memory voltage	1.2V
	PCI-E	(5) PCI-E Gen3 x16 slots
	Pre-install TYAN Riser Card	M2091-R, PCI-E x16 1U riser card (right), (3) M5631-R16-1, PCI-E x16 @front, 1U riser card (right), M5631-R16-2, PCI-E x16 @rear, 1U riser card (right)
	Pre-install TYAN OCP Riser Card	-
	Others	-
LAN	Port Q'ty	(2) 10GbE ports, (1) PHY
	Controller	Intel® X550-AT2
	PHY Controller	Realtek® RTL8211E

Storage	sSATA	Connector	(2) SATA-III, (2) 8-pin SATA/SATA-DOM
		Controller	Intel® C621
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® RST)
Graphic	M.2 connector	(2) M.2 connectors (22110/2280) by PCI-E & SATA interface	
	Connector type	D-Sub 15-pin	
Input /Output	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	
	USB	(2) USB3.0 ports (2 at rear), (2) USB3.0 ports (2 at front), (1) USB3.0 TYPE-A	
	COM	(1) 2x5 pin-header	
	VGA	(1) D-Sub 15-pin	
TPM (Optional)	RJ-45	(2) 10GbE ports, (1) PHY dedicated 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)	Yes	
Operating Environment	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.)

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