

1U1S 4/6-GPGPU SERVER PLATFORM



Transport HX GA88-B8021

B8021G88V2HR-2T-N



Front View



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

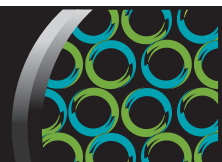
Back View



- (1+1) 1,600W ERP1U, 80 PLUS Platinum

1U1S GPGPU server platform designed for AI/Machine Learning and HPC applications

- Single SP3 socket supports (1) AMD EPYC™ 7000 Series Processor
- (5) PCIe x16 slots, supporting up to 4 double-wide GPU cards
- (2) 2.5" Hot-Swap SSD/HDDs devices
- (16) DIMM slots DDR4 ECC RDIMM/LRDIMM 2666/2400
- Up to 2,048GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS
- *Actual memory speed depends on memory population topology
- (2) 10GbE ports + (1) PHY port (via Intel® X550-AT2 + via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,600W ERP1U, 80 PLUS Platinum

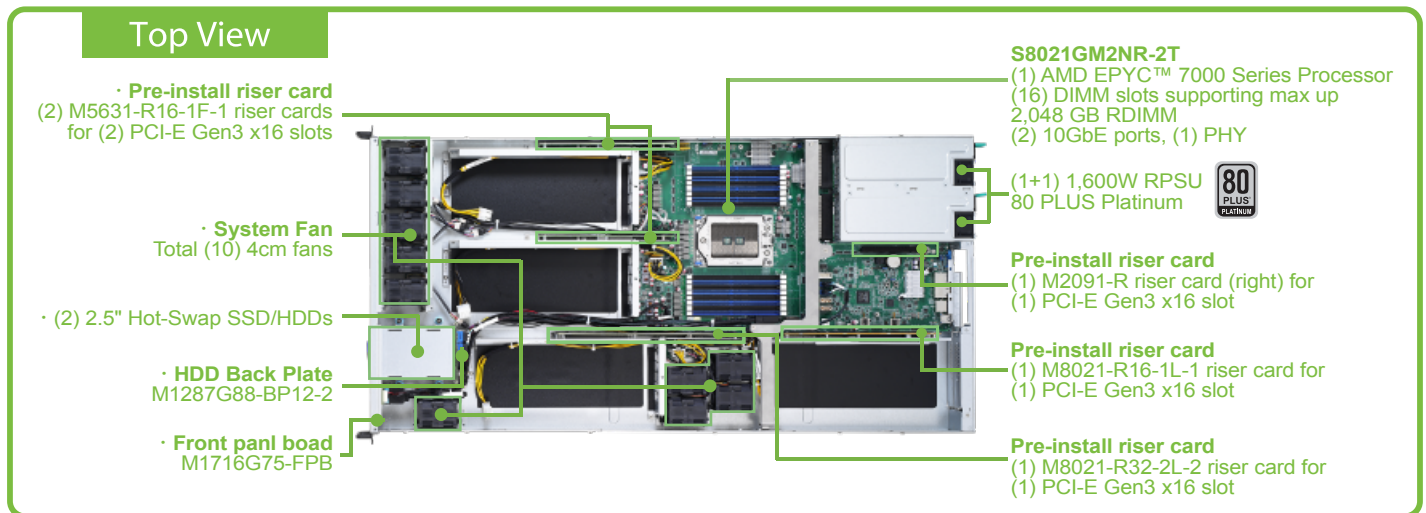


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TYAN

Specifications



System	Form Factor	1U Rackmount	Storage	NVMe Connector (M.2)	(2) 22110/2280 (by PCI-E interface)	
	Chassis Name	GA88		Graphic	Connector type	D-Sub 15-pin
	Dimension (D x W x H)	34.84" x 17.24" x 1.71" (885 x 438 x 43.5mm)			Resolution	Up to 1920x1200
	Motherboard	S8021GM2NR-2T		Chipset	Aspeed AST2500	
Front Panel	Gross Weight	26.5 kg (58.5 lbs)	Input / Output	USB	(2) USB3.0 ports (at front) (1) USB3.0 ports (at rear)	
	Net weight	13.5 kg (30 lbs)		COM	(1) 2x12 pin-header	
	Buttons	(1) RST, (1) PWR w/ LED, (1) UID		VGA	(1) D-Sub 15-pin	
External Drive Bay	LEDs	(1) PWR, (2) LAN, (1) UID, (1) BMC event		TPM (Optional)	RJ-45	(2) 10GbE ports, (1) GbE dedicated for IPMI
	I/O Ports	(2) USB 3.0 ports	TPM Support		Please refer to our TPM supported list.	
	Q'ty / Type	(2) 2.5" Hot-Swap SSD/HDDs	System Monitoring	Chipset	Onboard Aspeed AST2500	
HDD backplane support	SAS 12Gb/s, SATA 6Gb/s	Voltage		Monitors voltage for CPU, memory, chipset & power supply		
Supported HDD Interface	(2) SAS 12Gb/s or SATA 6Gb/s	Temperature		Monitors temperature for CPU & memory & system environment		
System Cooling Configuration	FAN & Heat Sink	(1) Passive CPU Heat sink + (10) 4cm fans	Server Management	LED (On system front panel)	Over temperature warning indicator, Fan & PSU fail LED indicator	
	Type	ERP1U		Others	Watchdog timer support	
Power Supply	Input Range	AC 100-127V/12A / AC 200-240V/9.48A	BIOS	Onboard Chipset	Onboard Aspeed AST2500	
	Efficiency	80-PLUS Platinum		Feature	AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
	Output Watts	1,600 Watts	Operating System		AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface
	Redundancy	1+1		Regulation	Brand / ROM size	AMI / 32MB
Processor	Supported CPU Series	(1) AMD EPYC™ 7000 Series Processor	Feature		Feature	Hardware Monitor, Boot from USB device/PXE via LAN/Storage, Console Redirection, ACPI 6.1, SMBIOS 3.1/PnP/Wake on LAN, ACPI sleeping states S0, S5, FAN speed control automatic
	Thermal Design Power (TDP) wattage	Max up to 170W		Operating Environment	OS supported list	Please refer to our AVL support list
Memory	Supported DIMM Qty	(16) DIMM slots	FCC (SDoC)		FCC (SDoC)	Class A
	DIMM Type / Speed	DDR4 ECC RDIMM/LRDIMM 2666/2400		CE (DoC)	CE (DoC)	Class A
	Capacity	Up to 2,048GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS *Actual memory speed depends on memory population topology	VCCI		VCCI	Class A
	Memory channel	8 Channels		RCM	RCM	Class A
Memory voltage	1.2V	CB/LVD	CB/LVD		Yes	
Expansion Slots	PCI-E		(4) PCI-E Gen3 x16 slots (FH, 10.5"L, DW) (1) PCI-E Gen3 x16 slot (FH, HL, SW)	Operating Temp.	Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)
	Pre-install TYAN Riser Card	(1) M2091-R riser card (right) for (1) PCI-E Gen3 x16 slot (1) M8021-R16-1L-1 riser card for (1) PCI-E Gen3 x16 slot (2) M5631-R16-1F-1 riser cards for (2) PCI-E Gen3 x16 slots (1) M8021-R32-2L-2 riser card for (1) PCI-E Gen3 x16 slot	Non-operating Temp.		Non-operating Temp.	-40° C ~ 70° C (-40° F ~ 158° F)
LAN	Port Q'ty	(2) 10GbE ports + (1) PHY		In/Non-operating Humidity	In/Non-operating Humidity	90%, non-condensing at 35° C
	Controller	Intel® X550-AT2	RoHS		RoHS 6/6 Compliant	Yes
	PHY Controller	Realtek® RTL8211E				

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

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