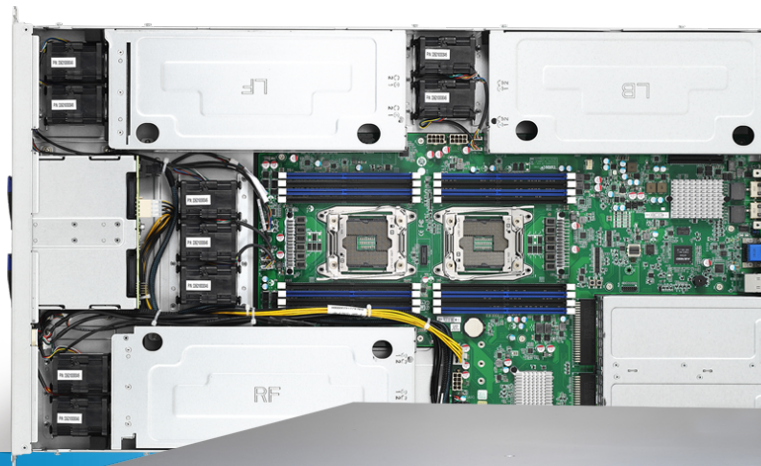


1U DUAL-SOCKET SERVER PLATFORM



GA80-B7081

B7081G80V4HR-2T-N / B7081G80V4HR-2T-X
B7081G80V4HR-N / B7081G80V4HR-X



■ Front View



• (4) hot-swap 2.5" SAS 12G/SATA 6G HDDs

■ Back View



• (3) PCI-E Gen3 x16 slots
• (1) PCI-E Gen3 x8 slot for high-speed I/O card
• (1+1) 1,600W RPSU @ 220Vac

1U Server Platform Designed for up to 3x GPGPU/Coprocessor Modules Deployment

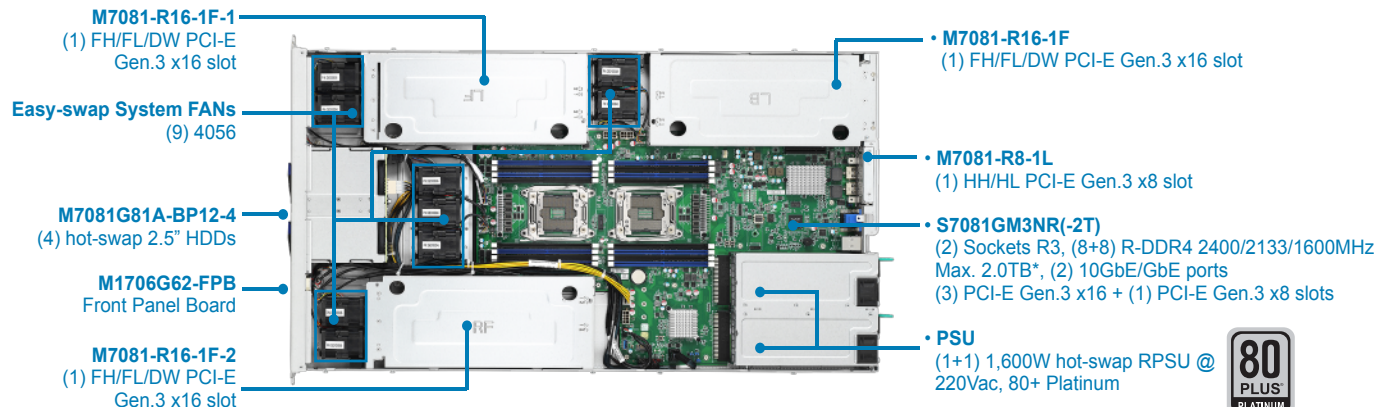
- Dual LGA2011 socket supports (2) Intel® Xeon® E5-2600 v3/v4 series processors
- Intel® C612 PCH
- (8+8) DDR4 DIMM slots RDIMM 2400/2133/1600; LRDIMM/LRDIMM 3DS 2400/1866
 - * Up to 2400 speed support only w/E5-2600 v4
 - Support up to 512GB RDIMM/1,024GB LRDIMM/2,048GB LDRIMM 3DS
 - *Follow latest Intel® DDR4 Memory POR
- (3) Full-Height/ Full-Length PCI-E Gen3 x16 slots support (3) Double-deck GPU/Coprocessor adapters
- (1) Half-Height/ Half-Length PCI-E Gen3 x8 slots
- (4) hot-swap 2.5" SAS 12Gb/s/ SATA 6Gb/s HDDs
- (2) 10GbE ports + (1) GbE port shared with IPMI (-2T SKU)
- (3) GbE ports (1 port shared with IPMI)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,600W RPSU w/ PFC, 80 plus Platinum Certified (1,600 Watts Max. only for 200-240V AC)

GA80-B7081

B7081G80V4HR-2T-N / B7081G80V4HR-2T-X
B7081G80V4HR-N / B7081G80V4HR-X

TYAN
Specifications

Top View



System (Recommend Chassis)	Form Factor	1U Rackmount
	Chassis Name	GA80
	Dimension (H x W x D)	31.50" x 17.32" x 1.73" (800 x 440 x 43.9mm)
	Motherboard	S7081GM3NR-2T-N S7081GM3NR-N
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 / (4)
	Supported HDD Interface	SAS 12Gb/s/ SATA 6Gb/s
System Cooling Configuration	FAN	(9) 4cm fans
	Type	RPSU
Power Supply	Redundancy	1+1
	Output Watts	1600 Watts Max. (only for 200-240V AC)
	Input Range	200-240V AC/9.48A
	Efficiency	PFC / 80-plus Platinum
Processor	Supported CPU Series	Intel® Xeon® Processor E5-2600 v3/v4 series processors
	Socket Type / Q'ty	LGA2011 / (2)
	Thermal Design Power (TDP) wattage	Max up to 135W / *Please contact Tyan's FAE/Salesman for the detail about CPUs type supporting and system
	System Bus	Up to 9.6/ 8.0/ 6.4 GT/s with Intel QuickPath Interconnect (QPI) support
Chipset	Chipset	Intel® C612
	Super I/O	-
Memory	Supported DIMM Qty	(8)+(8) DIMM slots
	DIMM Type / Speed	RDIMM DDR4 2400/2133/1600 / LRDIMM DDR4 2400/1866 / LRDIMM 3DS DDR4 2400/1866 (*Up to 2400 speed support only w/E5-2600 v4)
	Capacity	Up to 512GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
	Memory channel	4 Channels per CPU
	Memory voltage	1.2V
Expansion Slots	PCI-E	(1) PCI-E Gen3 x8 slot (3) PCI-E Gen3 x16 slots
	Pre-install TYAN Riser Card	M7081-R8-1L, PCI-E Gen3 x8 1U riser card (right) M7081-R16-1F, PCI-E Gen3 x16 1U riser card (right) M7081-L16-1F-1, PCI-E Gen3 x16 1U riser card (left) M7081-L16-1F-2, PCI-E Gen3 x16 1U riser card (left)
	LAN	
LAN	Port Q'ty	(2) 10GbE ports + (1) GbE port shared with IPMI (-2T SKU) (3) GbE ports (1 port shared with IPMI)
	Controller	Intel® X540-AT2 / Intel® I210 (-2T SKU) Intel® I350-BT2 / Intel® I210

Storage	SATA	Connector	(1) Mini-SAS (4-port)
		Controller	Intel® C612
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel RST)
Graphic	Connector type	Resolution	up to 1920 x 1200
		Chipset	Aspeed AST2400
		USB	(2) USB3.0 ports (2 at rear)
Input /Output	COM	COM	(1) DB-9 COM port headers
		VGA	(1) D-Sub 15-pin VGA port
		RJ-45	(2) 10GbE ports + (1) GbE port shared with IPMI (-2T SKU) (3) GbE ports (1 port shared with IPMI)
		Button	ID Button
		Other	ID LED
System Monitoring	Chipset	Chipset	Aspeed AST2400
		Voltage	Monitors temperature for CPU & memory & system environment
		Temperature	Monitors temperature for CPU & memory
		LED	Over temperature warning indicator / Fan & PSU fail LED indicator
System Management	Onboard Chipset	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	Brand / ROM size	AMI / 16MB
		Feature	User-configurable H/W monitoring / Auto-configurable of hard disk types / SMBIOS 2.7/PnP/Wake on LAN / PXE boot support / ACPI 3.0/ACPI sleeping states S4,S5
Operating System	OS supported list	OS supported list	Please refer to our OS supported list.
Regulation	FCC (DoC)	FCC (DoC)	Class A
		CE (DoC)	Yes
Operating Environment	Operating Temp.	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	NVIDIA GPU Cards can be supported with limited thermal condition
RoHS	RoHS 6/6 Complaint	RoHS 6/6 Complaint	Yes

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

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