

DUAL-SOCKET 2U SERVER PLATFORM

TA80-B7071

B7071T80V8HR / B7071T80V8HR-2T
B7071T80V8HR-N / B7071T80V8HR-X
B7071T80V8HR-2T-N



■ Front View



(8) hot-swap 2.5" SAS/SATA 6G HDDs

■ Back View



• (4) Double-width, Full-Size PCI-E x16 slots for GPU deployment
• (1+1) hot-swap 1.6KW RPSU, 80+ Platinum

2U Server Platform Designed for up to 4x GPGPU/Coprocessor Modules Deployment

- Dual LGA2011 socket supports (2) E5-2600 v3 series CPU
- Intel® C612 PCH
- (8)+(8) DIMM slots
Support up to 512GB RDIMM DDR4 2133/1866/1600
Support up to 1,024GB LRDIMM DDR4 2133/1600
Support up to 2,048 LRDIMM 3DS DDR4 2133/1600
Follow latest Intel DDR4 Memory POR
- (4) Full-Height/ Full-Length PCI-E Gen3 x16 slots support
- (4) Double-deck GPU adapters/Coprocessor modules
- (1) Full-Height/ Half-Length PCI-E Gen3 x8 slots
- (8) hot-swap 2.5" SAS/SATA 6G HDDs
- (2) Internal 2.5" fixed SATA 6Gb/s HDDs
- (2) GbE + (1) dedicated for IPMI
- (2) 10GbE + (1) dedicated for IPMI (-2T SKU)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) Redundant, ERP1U high-efficiency 1,600W PSU w/ PFC, 80 plus Platinum Certified

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TYAN
Specifications

Top View

M1702T70-USB
Front USB Module

(2) Internal 2.5"
fixed HDDs

(8) hot-swap SAS/SATA
6G HDDs

System FANs
(4) 8038

M1701T70-FPB
Front Panel Module

• Up to (2) Double-width, Full-size
(Gen.3) x16 GPGPU adapters/
Coprorocessor Modules

S7071GM2NR/-2T
(2) LGA2011 sockets
(8+8) R-DDR4 1600/1333/1066MHz
Max.512GB
(2) GbE/10GbE + (1) IPMI ports

• Up to (2) Double-width, Full-size
(Gen.3) x16 GPGPU adapters/
Coprorocessor Modules
• (1) Full-Height/ Half-Length PCI-E
Gen3 x8

PSU
ERP1U (1+1) 1,600W RPSU
80+ Platinum
(1,600W Max. only for 200-240V AC)



System (Recommend Chassis)	Form Factor	2U Rackmount
	Chassis Name	TA80
	Dimension (H x W x D)	30.31" x 17.32" x 3.43" (780 x 440 x 87mm)
	Motherboard	S7071GM2NR S7071GM2NR-2T S7071GM2NR-N S7071GM2NR-2T-N
	Gross Weight	17KG
Front Panel	Buttons	(1) PWR (w/ LED) / (1) RST / (1) ID
	LEDs	(1) ID / (1) IPMI/Warning
	I/O Ports	(2) USB ports
External Drive Bay	Type / Q'ty	2.5" Hot-Swap / (8)
	Supported HDD Interface	SAS / SATA 6.0Gb/s
Internal Drive Bay	Type / Q'ty	2.5" Fixed / (2)
	Supported HDD Interface	SATA 6Gb/s
System Cooling Configuration	FAN	(4) 8cm fans
Power Supply	Type	ERP1U
	Redundancy	1+1
	Output Watts	1600 Watts Max. (only for 200-240V AC)
	Efficiency	PFC / 80-plus Platinum
Processor	Supported CPU Series	Intel® Xeon® Processor E5-2600 v3 Series
	Socket Type / Q'ty	LGA2011 / (2)
	Thermal Design Power (TDP) wattage	Max up to 145W
	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 2133/1866/1600 / LRDIMM DDR4 2133/ 1600 / LRDIMM 3DS DDR4 2133/1600
	Capacity	Up to 512GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS *Follow
	Memory channel	4 Channels per CPU
	Memory voltage	1.2V
Expansion Slots	PCI-E	(1) PCI-E Gen.3 x16 slot (w/ x8 link) (4) PCI-E Gen3 x16 slot
	Pre-install TYAN Riser Card	M2091-R, PCI-E x16 1U riser card (right) M2207-R32-2F, PCI-E Gen3 x16 slot (right) M2208-L32-2F, PCI-E Gen3 x16 slot (left)

LAN	Port Q'ty		(2) GbE ports + (1) dedicated for IPMI (2) 10GbE ports + (1) dedicated for IPMI (-2T SKU)
	Controller		Intel® I350-BT2 + Realtek® RTL8211E Intel® I350-AT2 + Realtek® RTL8211E (-2T SKU)
Storage	SATA	Connector	(2) Mini-SAS (8-ports) + (2) SATA (totally support 10 ports)
		Controller	Intel® C612
		Speed	6.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® RST)
Graphic	Connector type		D-Sub 15-pin
	Resolution		up to 1920 x 1200
	Chipset		Aspeed AST2400
Input /Output	USB		(3) USB3.0 ports (2 at rear, 1 TYPE-A) (2) USB2.0 ports (2 at front)
	VGA		(1) D-Sub 15-pin VGA port
	RJ-45		(3) ports (1 dedicate port for IPMI)
System Monitoring	Chipset		Aspeed AST2400
	Voltage		Monitors voltage for CPU, memory, chipset & power supply
	Temperature		Monitors temperature for CPU & memory & system environment
	LED		Over temperature warning indicator Fan & PSU fail LED indicator
System Management	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		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		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)
	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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