

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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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/ Coprocessor 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/ Coprocessor 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-X
		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	
	Type	ERP1U	
Power Supply	Redundancy	1+1	
	Output Watts	1600 Watts Max. (only for 200-240V AC)	
	Efficiency	PFC / 80-plus Platinum	
	Supported CPU Series	Intel® Xeon® Processor E5-2600 v3 Series	
Processor	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	Intel® C612	
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	
Expansion Slots	Memory voltage	1.2V	
	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)	
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.)

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