

## DUAL-SOCKET HPC PLATFORM



### GN70-B7056

B7056G70V8HR / B7056G70W8HR /  
B7056G70W8HR-2T



#### ■ Front View



(8) Hot-Swap 3.5" SATA-II/ SAS HDDs

#### ■ Back View



(4) FH/FL PCI-E (G3) x8 slots +  
(2) FH/HL PCI-E (G3) x8 slots

High-end dual-socket server platform for HPC and enterprise virtualization applications

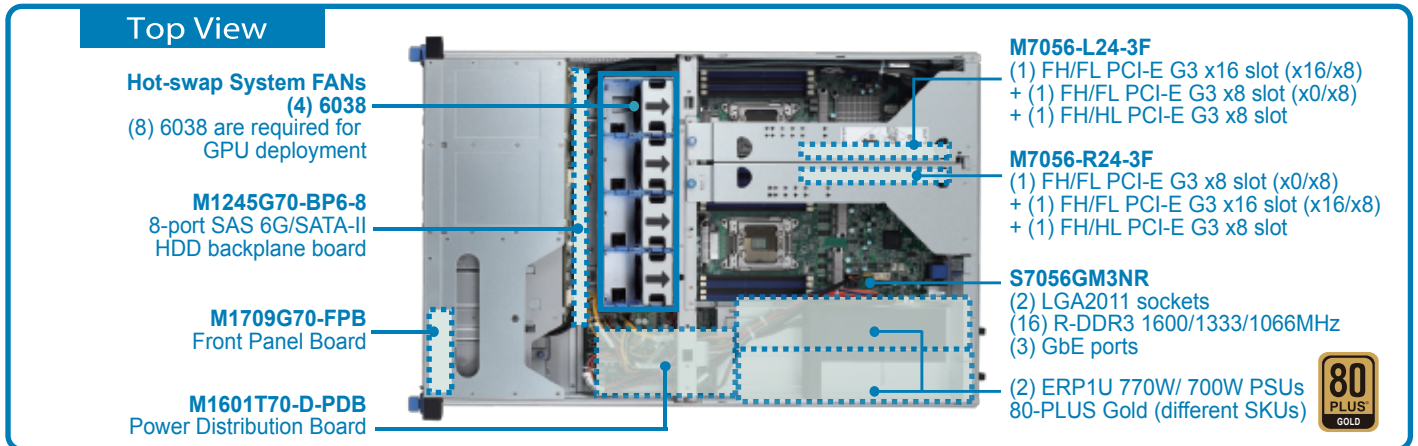
- Dual LGA2011 socket supports Intel® Xeon® Processor E5-2600/E5-2600 v2 Series CPU
- Intel® C602 PCH and INTEL SAS ROM key design
- (8+8) 240-pin UDIMM/RDIMM/LRDIMM ECC 1066/1333/1600/1866  
\*Speed 1866 only for 1 slot per channel 1.5V(Blue color DIMM slot)
- up to (6) PCI-E Gen3 slots by riser
- (4) SATA-II connectors w/ RAID 0, 1, 10, 5 support
- (2) SATA-III connectors
- (8) SAS/SATA 3G ports(SCU)enabled by option ROM kit
- (3) GbE (via Intel® I350-BT2 + Intel® 82574L), or (2) 10GbE (via Intel® X540-AT2) + (1) GbE (Intel® 82574L) (-2T SKU)
- (7) USB2.0 ports (2 at rear, 4 via cable, 1 type A onboard)
- EATX (12" x 13", 305mm x 330mm)



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**TYAN**  
Specifications



System (Recommend Chassis)	Form Factor	2U Rackmount
	Chassis Name	GN70
	Dimension (H x W x D)	3.43" x 16.93" x 27.56" (87 x 430 x 700mm)
	Motherboard	S7056GM3NR / S7056WGM3NR / S7056WGM3NR-2T
Front Panel	Gross Weight	26KG
	Buttons	(1) PWR (w/ LED) / (1) RST / (1) NMI / (1) ID
	LEDs	(1) ID / (1) Warning / (1) Reserved (3) LAN
External Drive Bay	I/O Ports	(2) USB ports
	Type / Q'ty	3.5" Hot-Swap / (8)
Supported HDD Interface	Supported HDD	8-bay for 3.5"HDD ,6Gb/s mini-SAS backplane
	FAN	up to (8) 6cm hot-swap fans (Default 4 hot-sawp FANS)
Power Supply	Type	ERP1U
	Input Range	Full-range AC(100-240V)
	Frequency	47 - 63 Hertz
	Output Watts	770 Watts
Processor	Efficiency	PFC / 80-PLUS Gold
	Supported CPU Series	Intel® Xeon® Processor E5-2600/E5-2600 v2
	Socket Type / Q'ty	Socket R (2)
	Average CPU Power (ACP) wattage	Up to 130W*
Chipset	System Bus	QPI link upto 8GT/s
	Chipset	Intel® C602
Memory	Super I/O	-
	Supported DIMM Qty	(8+8) DIMM slots
	DIMM Type / Speed	UDIMM/RDIMM/LRDIMM ECC 1066/1333/1600/1866 *Speed 1866 only for 1 slot per channel 1.5V (Blue color DIMM slot)
	Capacity	up to 128GB UDIMM / 512GB RDIMM / 512GB LRDIMM
	Memory channel	4 Channels per CPU
Expansion Slots	Memory voltage	1.5V/ 1.35V
	PCI-E	up to (6) PCI-E x8 slots by Riser Card
	Recommended TYAN® Riser Card	M7056-L24-3F, PCI-E x16 2U riser card (left) M7056-R24-3F, PCI-E x16 2U riser card (right)
LAN	Port Q'ty	(3) GbE ports
	Controller	Intel® 82574L + Intel® I350-BT2 Intel® 82574L + Intel® X540 (-2T SKU)

Storage	SAS (opt.)	Controller	Intel® Integrated RAID upgrade ROM 5 (-W SKU)
		Speed	3.0 Gb/s
	SATA	RAID	RAID 0/1/10
		Controller	Intel® C602 series
Graphic	Speed	6.0 Gb/s	
	RAID	RAID 0/1/10/5 (INTEL RAID stack)	
	Connector type	D-Sub 15-pin	
Input /Output	Resolution	up to 1920 x 1200	
	Chipset	Aspeed AST2300	
	USB	(7) USB2.0 ports (2 at rear, 4 via cable, 1 type A onboard)	
	COM	(1) port (rear)	
	VGA	(1) D-Sub 15-pin VGA port (2) SATA II connectors	
System Monitoring	RJ-45	(3) GbE ports	
	Chipset	Nuvoton 83773G	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Temperature	Monitors temperature for CPU & system environment	
BIOS	LED (On system front panel)	Fan fail LED indicator Over temperature warning indicator	
	Temperature	Chassis intrusion detection Watchdog timer support	
Regulation	Brand / ROM size	AMI / 8MB	
	Feature	Plug and Play (PnP) /PCI2.3 /WfM2.0 /SMBIOS2.3 /PXE boot / ACPI 2.0 power management /Power on mode after power recovery / User-configurable H/W monitoring / Auto-configurable of hard disk types	
Operating Environment	FCC (DoC)	Class A	
	CE (DoC)	Yes	
	Operating Temp.	10° C ~ 35° C (50° F~ 95° F)	
RoHS	Non-operating Temp.	-40° C ~ 70° C (-40° F ~ 158° F)	
	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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