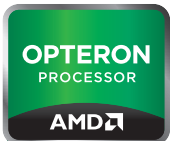


## 2U DUAL-SOCKET GPGPU SERVER PLATFORM



### GN70-B8236-HE

B8236G70W8HR-HE



#### ■ Front View



#### ■ Back View



Best 2U dual-socket SMP server platform supporting 2x GPGPU cards for HPC applications

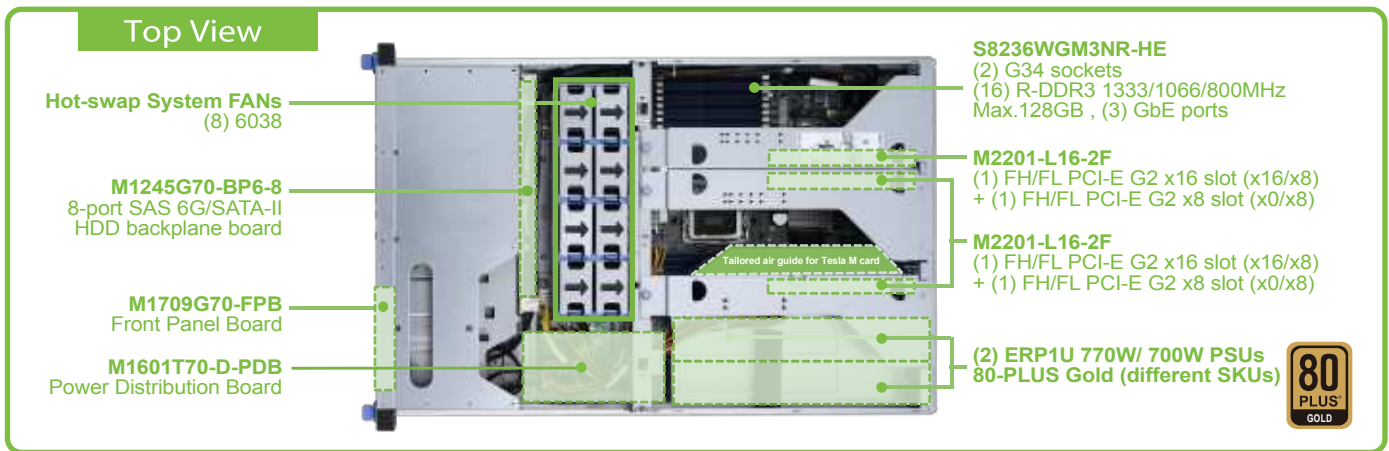
- Dual G34 sockets support up to (2) AMD Opteron™ 6100/6200 series processors (Magny-Cours/Interlagos)
- Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link
- AMD SR5690 + SR5650 + SP5100
- (16) 240-pin DDR3 DIMM slots support up to 128GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (2) FH/FL PCI-E (Gen.2) x16 slots (for GPGPU installation)
- (2) FH/HL PCI-E (Gen.2) x8 slots (for high-speed I/O cards installation)
- (3) GbE LAN
- (8) Hot-swap 3.5" SAS 6G HDDs w/ RAID 0, 1, 1E, 10 support
- Onboard BMC w/ IPMI and iKVM support
- (1+1) ERP1U high-efficiency (80-PLUS Gold) 770W PSU w/ PFC (B8236G70W8HR-HE)
- (1+1) ERP1U high-efficiency (80-PLUS Gold) 700W PSU w/ PFC (B8236G70W8HR-HE-SEM)



# GN70-B8236-HE

B8236G70W8HR-HE

**TYAN**  
Specifications



System	<b>Form Factor</b>	2U Rackmount
	<b>Chassis Name</b>	GN70
	<b>Dimension (H x W x D)</b>	3.43" x 16.93" x 27.56" (87 x 430 x 700mm)
	<b>Motherboard</b>	S8236WGM3NR-HE
	<b>Gross Weight</b>	26 kg
Front Panel	<b>Buttons</b>	(1) PWR (w/ LED) / (1) RST / (1) NMI / (1) ID
	<b>LEDs</b>	(1) ID / (1) Warning / (1) Reserved
	<b>I/O Ports</b>	(2) LAN (3) USB ports
External Drive Bay	<b>Type / Q'ty</b>	3.5" Hot-Swap / (8)
	<b>Supported HDD Interface</b>	SAS 6.0Gb/s
System Cooling Configuration	<b>FAN</b>	(8) 6cm hot-swap fans
	<b>Type</b>	ERP1U
Power Supply	<b>Input Range</b>	Full-range AC(100-240V)
	<b>Frequency</b>	47 - 63 Hertz
	<b>Output Watts</b>	770 Watts (B8236G70W8HR-HE) 700 Watts (B8236G70W8HR-HE-SEM)
	<b>Efficiency</b>	PFC / 80-PLUS Gold
	<b>Supported CPU Series</b>	AMD Opteron™ 6100/6200 series processors
Processor	<b>Socket Type / Q'ty</b>	G34 / (2)
	<b>Average CPU Power (ACP) wattage</b>	Up to 105W
	<b>System Bus</b>	Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6GB/s @ 6.4GT/s per link
	<b>Chipset</b>	AMD SR5690 + SR5650 + SP5100
Memory	<b>Supported DIMM Qty</b>	(8+8) DIMM slots
	<b>DIMM Type / Speed</b>	DDR3 1333/1066/800 RDIMM
	<b>Capacity</b>	Up to 128GB RDIMM
	<b>Memory channel</b>	8 Channels (4 Channels per CPU)
	<b>Memory voltage</b>	1.5V/ 1.35V
Expansion Slots	<b>PCI-E</b>	(2) FH/FL PCI-E Gen.2 x16 slots (or up to (4) FH/FL PCI-E Gen.2 x8 slots) (2) FH/HL PCI-E Gen.2 x8 slots
	<b>Pre-installed TYAN Riser Card</b>	(1) M2201-L16-2F, PCI-E x16 2U riser card (left) (2) M2202-R16-2F, PCI-E x16 2U riser card (right)
	<b>Port Q'ty</b>	(3)
LAN	<b>Controller</b>	Intel 82576EB Intel 82574L

Storage	<b>SAS (opt.)</b>	<b>Controller</b>	LSI SAS2008
		<b>Speed</b>	6.0 Gb/s
	<b>SATA</b>	<b>RAID</b>	RAID 0/1/1E/10 (LSI Integrated RAID)
		<b>Controller</b>	AMD SP5100
Graphic	<b>Connector type</b>	D-Sub 15-pin	
	<b>Resolution</b>	1600x1200@60Hz	
	<b>Chipset</b>	Aspeed AST2050	
Input /Output	<b>USB</b>	(5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard)	
	<b>COM</b>	(1) DB-9 port	
	<b>VGA</b>	(1) D-Sub 15-pin VGA port	
	<b>RJ-45</b>	(3) GbE ports	
System Monitoring	<b>Chipset</b>	Winbond W83795G	
	<b>Voltage</b>	Monitors voltage for CPU, memory, chipset & power supply	
	<b>Temperature</b>	Monitors temperature for CPU & system environment	
	<b>LED (On system front panel)</b>	Fan fail LED indicator Over temperature warning indicator	
	<b>Others</b>	Chassis intrusion detection Watchdog timer support	
Server Management	<b>Onboard Chipset</b>	Onboard Aspeed AST2050	
	<b>AST2050 IPMI Feature</b>	IPMI 2.0 compliant baseboard management controller (BMC) BIOS update USB 2.0 virtual hub	
	<b>AST2050 iKVM Feature</b>	24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces	
BIOS	<b>Brand / ROM size</b>	AMI / 4MB	
	<b>Feature</b>	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 Multiple boot options	
Operating System	<b>OS supported list</b>	Please refer to our OS supported list.	
Regulation	<b>FCC (DoC)</b>	Class A	
	<b>CE (DoC)</b>	Yes	
Operating Environment	<b>Operating Temp.</b>	10° C ~ 35° C (50° F ~ 95° F)	
	<b>Non-operating Temp.</b>	- 40° C ~ 70° C (-40° F ~ 158° F)	
	<b>In/Non-operating Humidity</b>	90%, non-condensing at 35° C	
RoHS	<b>RoHS 6/6 Complaint</b>	Yes	

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

**MITAC INTERNATIONAL CORP.**  
TYAN Business Unit

**USA**  
Tel: +1-510-651-8868  
Fax: +1-510-651-7688

**Taiwan**  
Tel: +886-2-2652-5888  
Fax: +886-2-2652-5805

**Japan**  
Tel: +81-3-3769-8311  
Fax: +81-3-3769-8328

**Europe**  
Sales: +32 2456 1721  
Technical Support: +32 2456 1722

**China**  
Shanghai Tel: +86-21-61431188 Ext 1366  
China Tel: +86-010-62555015 Ext 8302