

# 1U DUAL-SOCKET POWER-EFFICIENT SERVER PLATFORM



## GT24-B8236-IL

B8236G24W4H-IL / B8236G24V4H-IL  
B8236G24W4HR-IL



### ■ Front View

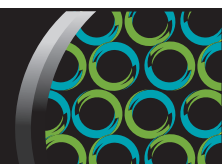


### ■ Back View



## Best 1U dual-socket SMP server implementation for HPC and enterprise virtualization applications

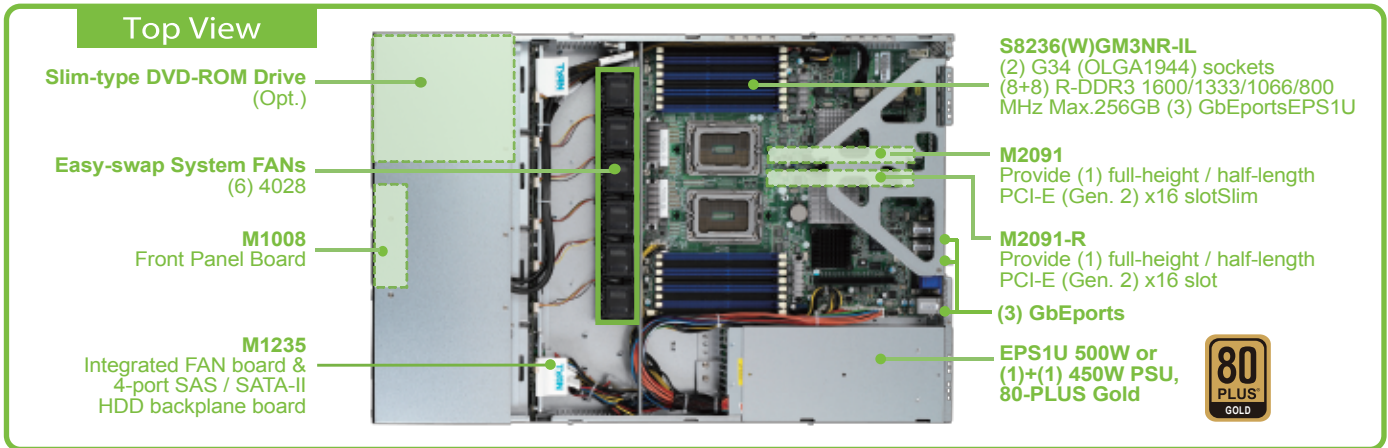
- Dual G34 sockets support up to (2) AMD Opteron™ processors 6100/ 6200/ 6300 series (Magny-Cours/ Interlagos/ Abu Dhabi)
- Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link
- AMD SR5690 + SP5100
- (16) 240-pin DDR3 DIMM slots support up to 256GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (1) FH/HL PCI-E (Gen.2) x16 slot
- (1) FH/HL PCI-E (Gen.2) x16 slot
- (3) GbE LAN
- (4) Hot-swap 3.5" SAS 6G HDDs w/ RAID 0, 1, 1E, 10 support (B8236G24W4H-IL) / (B8236G24W4HR-IL)
- (4) Hot-swap 3.5" SATA-II HDDs w/ RAID 0, 1, 10, 5 support (B8236G24V4H-IL)
- Onboard BMC w/ IPMI and iKVM support
- (1) EPS1U high-efficiency (80-PLUS Gold) 500W PSU w/ PFC or (1) + (1) 450W Redundant Power



# GT24-B8236-IL

B8236G24W4H-IL / B8236G24V4H-IL / B8236G24W4HR-IL

**TYAN**  
Specifications



System	<b>Form Factor</b>	1U Rackmount
	<b>Chassis Name</b>	GT24
	<b>Dimension (H x W x D)</b>	1.72" x 17.2" x 25.4" (43.6 x 436 x 645mm)
	<b>Motherboard</b>	S8236GM3NR-IL (B8236G24V4H-IL) S8236WGM3NR-IL (B8236G24W4H-IL) S8236VGM3NR-IL (B8236G24W4HR-IL)
	<b>Gross Weight</b>	16 kg
Front Panel	<b>Buttons</b>	(1) PWR (w/ LED) / (1) RST / (1) NMI / (1) ID (1) ID / (1) Warning / (1) Reserved (3) LAN
	<b>LEDs</b>	(1) ID / (1) Warning / (1) Reserved (3) LAN
	<b>I/O Ports</b>	(2) USB ports
External Drive Bay	<b>Type / Q'ty</b>	3.5" Hot-Swap / (4)
	<b>Supported HDD Interface</b>	SATA-II 3.0Gb/s (B8236G24V4H-IL) SAS 6.0Gb/s (B8236G24W4H-IL) / (B8236G24W4HR-IL)
System Cooling	<b>FAN</b>	(6) 4cm fans
Power Supply	<b>Type</b>	EPS1U
	<b>Input Range</b>	Full-range AC(100-240V)
	<b>Frequency</b>	47 - 63 Hertz
	<b>Output Watts</b>	500 Watts (single) or (1) + (1) 450W Redundant Power
Processor	<b>Efficiency</b>	PFC / 80-PLUS Gold
	<b>Supported CPU Series</b>	AMD Opteron™ processors 6100/6200/6300 series
	<b>Socket Type / Q'ty</b>	G34 / (2)
Chipset	<b>Thermal Design power (TDP) wattage</b>	Up to 115W
	<b>System Bus</b>	Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6GB/s @ 6.4GT/s per link
Memory	<b>Chipset</b>	AMD SR5690 + SP5100
	<b>Super I/O</b>	Winbond W83627DHG-P
	<b>Supported DIMM Qty</b>	(8+8) DIMM slots
	<b>DIMM Type / Speed</b>	DDR3 1333/1066/800 RDIMM
Expansion Slots	<b>Capacity</b>	Up to 256GB RDIMM
	<b>Memory channel</b>	8 Channels (4 Channels per CPU)
	<b>Memory voltage</b>	1.5V/ 1.35V/ 1.25V
LAN	<b>PCI-E</b>	(1) FH/HL PCI-E Gen.2 x16 slot (1) FH/HL PCI-E Gen.2 x16 slot
	<b>Pre-installed TYAN Riser Card</b>	M2091, PCI-E x16 1U riser card (left) M2091-R, PCI-E x16 1U riser card (right)
LAN	<b>Port Q'ty</b>	(3)
	<b>Controller</b>	Intel 82576EB Intel 82574L

Storage	<b>SAS (opt.)</b>	<b>Controller</b>	LSI SAS2008 (B8236G24W4H-IL & B8236G24W4HR-IL only)
		<b>Speed</b>	6.0 Gb/s
		<b>RAID</b>	RAID 0/1/1E/10 (LSI Integrated RAID)
Graphic	<b>SATA</b>	<b>Controller</b>	AMD SP5100
		<b>Speed</b>	3.0 Gb/s
		<b>RAID</b>	RAID 0/1/10/5 (Promise RAID stack)
Input /Output	<b>Connector type</b>	D-Sub 15-pin	
	<b>Resolution</b>	1600x1200@60Hz	
	<b>Chipset</b>	Aspeed AST2050	
	<b>USB</b>	(5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard)	
System Monitoring	<b>COM</b>	(1) DB-9 port	
	<b>VGA</b>	(1) D-Sub 15-pin VGA port	
	<b>RJ-45</b>	(3) GbE ports	
	<b>Chipset</b>	Winbond W83795G	
Server Management	<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)</b>	Fan fail LED indicator Over temperature warning indicator	
	<b>Others</b>	Watchdog timer support	
BIOS	<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	
Operating System	<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	
Regulation	<b>OS supported list</b>	Please refer to our OS supported list.	
Operating Environment	<b>FCC (DoC)</b>	Class A	
	<b>CE (DoC)</b>	Yes	
RoHS	<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	
<b>RoHS 6/6 Complaint</b>	Yes		

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