

## Cost-Effective SMP Server Platform



**GT20-B7002**  
**B7002G20V4H**



■ Front View



■ Back View



Entry 1U dual-socket SMP server platform for most of enterprise and HPC applications

- 1 Dual LGA1366 sockets support up to (2) Intel® Quad-Core Xeon® Processor 5500 Series
- 1 Support QPI 6.4/ 5.86/ 4.8 GT/s
- 1 Intel® 5500 IOH
- 1 Intel® ICH10R South Bridge
- 1 (8) 240-pin DDR3 DIMM slots support up to 64GB R-DDR3 1333/1066/800MHz w/ ECC memory
- 1 (1) FH/FL PCI-E (Gen.2) x16 slot
- 1 (2) GbE LAN
- 1 (4) Hot-swap SATA-II HDDs w/ RAID 0/1/10/5 support
- 1 Onboard BMC w/ iKVM support
- 1 (1) EPS1U high-efficiency 400W PSU w/ PFC

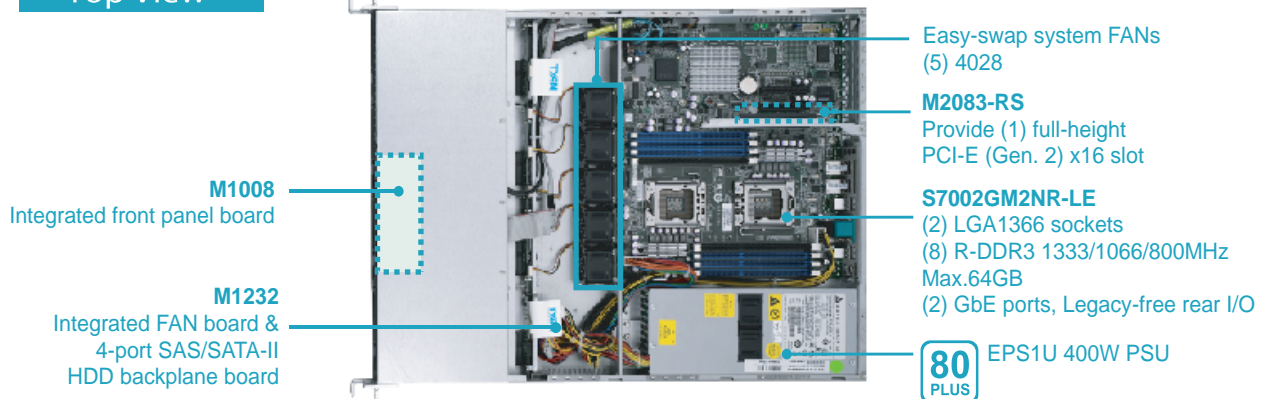
Model Number	HDD Bay (No.)	Storage Backplane	Power Supply
B7002G20V4H	(4) Hot-swap SATA-II	4-port SAS/SATA	EPS1U 400W

# GT20-B7002

BB7002G20V4H

# Specifications

## Top View



System	<b>Form Factor</b>	1U Rackmount
	<b>Chassis Name</b>	GT20
	<b>Dimension (D x W x H)</b>	22.4" x 17.2" x 1.72" (568 x 436 x 43.6mm)
	<b>Motherboard</b>	S7002GM2NR-LE
	<b>Gross Weight</b>	16 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 (2) LAN / (1) HDD
	<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
System Cooling Configuration	<b>FAN</b>	(5) 4cm fans
Power Supply	<b>Type</b>	EPS1U
	<b>Input Range</b>	Full-range AC(100-240V)
	<b>Frequency</b>	60 Hertz
	<b>Output Watts</b>	400 Watts
	<b>Efficiency</b>	PFC / 80-plus
Processor	<b>Supported CPU Series</b>	Intel® Xeon® Processor 5500 Series
	<b>Socket Type / Q'ty</b>	LGA1366 / (2)
	<b>Thermal Design Power (TDP) wattage</b>	95W
Chipset	<b>System Bus</b>	Up to 4.8/ 5.86/ 6.4GT/s with Intel® QuickPath Interconnect (QPI) support
	<b>IOH / ICH</b>	Intel 5500 / ICH10R
Memory	<b>Super I/O</b>	Winbond W83627
	<b>Supported DIMM Qty</b>	(8) DIMM sockets
	<b>DIMM Type / Speed</b>	DDR3 800/1066/1333 RDIMM/UDIMM
	<b>Capacity</b>	Up to 64GB
	<b>Memory channel</b>	6 Channels (3 Channels per CPU)
Expansion Slots	<b>Memory voltage</b>	1.5V
	<b>PCI-E</b>	(1) PCI-E FH/FL Gen.2 x16 slot
	<b>Pre-installed TYAN® Riser Card</b>	M2083-RS, PCI-E x16 1U riser card (left)
LAN	<b>Port Q'ty</b>	(2)
	<b>Controller</b>	Intel 82574L
Storage	<b>Controller</b>	ICH10R
	<b>SATA Speed</b>	3.0 Gb/s
	<b>RAID</b>	RAID 0/1/10/5 (Intel® Matrix RAID)
Graphic	<b>Connector type</b>	D-Sub 15-pin
	<b>Resolution</b>	1600x1200@60Hz
	<b>Chipset</b>	Aspeed AST2050

I/O Ports	<b>USB</b>	(6) ports (2 at front, 4 at rear)
	<b>COM</b>	(1) DB-9 port
	<b>VGA</b>	(1) D-sub port
	<b>RJ-45</b>	(2) ports
System Monitoring	<b>Chipset</b>	Winbond W83793G
	<b>Voltage</b>	Monitors voltage for CPU, memory, chipset & power supply
	<b>Temperature</b>	Monitors temperature for CPU & system environment
	<b>LED</b>	Fan fail LED indicator Over temperature warning indicator
	<b>Others</b>	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) Supports storage over IP and remote platform-flash 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 / 2MB
	<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.)

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