

HIGH-END HPC SERVER PLATFORM

GT24-B7016

B7016G24V4H / B7016G24W4H



■ Front View



■ Back View



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

- Dual LGA1366 sockets support up to (2) Intel® Xeon® Processor 5500 Series
- Support QPI 6.4/ 5.86/ 4.8 GT/s
- Intel® 5520 IOH
- Intel® ICH10R South Bridge
- (18) 240-pin DDR3 DIMM slots support up to 144GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (2) FH/HL PCI-E (Gen.2) x16 slots (w/ x8 link)
- (3) GbE LAN
- (4) Hot-swap SAS HDDs w/ RAID 0/1/1E support (B7016G24W4H only)
- (4) Hot-swap SATA-II HDDs w/ RAID 0/1/10/5 support
- Onboard BMC w/ iKVM support
- (1) EPS1U high-efficiency 600W PSU w/ PFC

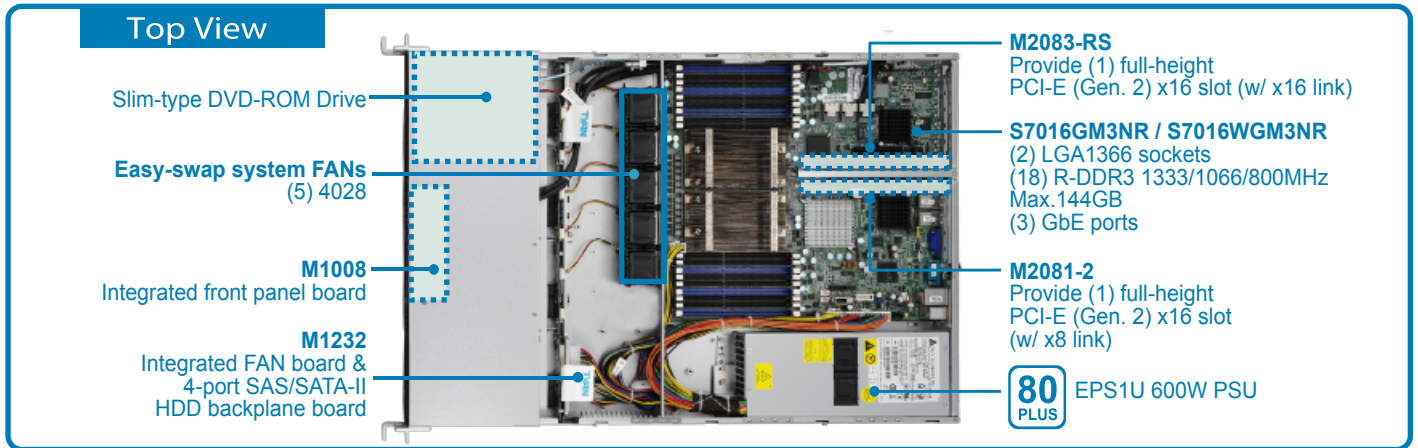


GT24-B7016

B7016G24V4H / B7016G24W4H



Specifications



| | | | |
|------------------------------|------------------------------------|--|-----------------------------------|
| System | Form Factor | 1U Rackmount | |
| | Chassis Name | GT24 | |
| | Dimension (D x W x H) | 25.4" x 17.2" x 1.72" (645 x 436 x 43.6mm) | |
| | Motherboard | S7016GM3NR (B7016G24V4H) S7016WGM3NR (B7016G24W4H) | |
| Front Panel | Gross Weight | 16 kg | |
| | 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 / (4) | |
| System Cooling Configuration | Supported HDD Interface | SATA-II 3.0Gb/s | |
| | FAN | (5) 4cm fans | |
| Peripherals | Type of ODD / Q'ty | Slim-type DVD-ROM / (1) | |
| | Type | EPS1U | |
| Power Supply | Input Range | Full-range AC(100-240V) | |
| | Frequency | 60 Hertz | |
| | Output Watts | 600 Watts | |
| | Efficiency | PFC / 80-plus | |
| | Supported CPU Series | Intel® Xeon® Processor 5500 Series | |
| Processor | Socket Type / Q'ty | LGA1366 / (2) | |
| | Thermal Design Power (TDP) wattage | 95W | |
| | System Bus | Up to 4.8/ 5.86/ 6.4GT/s with Intel® QuickPath Interconnect (QPI) support | |
| Chipset | IOH / ICH | Intel® 5520 / ICH10R | |
| Memory | Supported DIMM Qty | (18) DIMM sockets | |
| | DIMM Type / Speed | DDR3 800/1066/1333 RDIMM/UDIMM | |
| | Capacity | Up to 144GB | |
| | Memory channel | 6 Channels (3 Channels per CPU) | |
| Expansion Slots | Memory voltage | 1.5V | |
| | PCI-E | (2) PCI-E FH/HL x16 slots (w/ x8 link) | |
| | Pre-installed TYAN® Riser Card | M2083-RS, PCI-E x16 1U riser card (left) M2081-2, PCI-E x16 1U riser card (right) | |
| LAN | Port Q'ty | (3) | |
| | Controller | Intel® 82574L / Intel 82576 | |
| Storage | SAS (opt.) | Controller | LSI SAS1068E (B7016G24W4H only) |
| | | Speed | 3.0 Gb/s |
| | SATA | RAID | RAID 0/1/1E (LSI Integrated RAID) |
| | | Controller | ICH10R |

| | | | |
|-----------------------------------|---------------------------|-----------------|---|
| Storage | SATA | Speed | 3.0 Gb/s |
| | RAID | | RAID 0/1/10/5 (Intel) |
| Graphic | Connector type | | D-Sub 15-pin |
| | Resolution | | 1600x1200@75Hz |
| | Chipset | | Server Engines Pilot 2 |
| I/O Ports | USB | | (2) ports |
| | COM | | (1) DB-9 port |
| | PS/2 | | (1) PS/2 connector (for Keyboard and Mouse) |
| | VGA | | (1) D-sub port |
| | RJ-45 | | (3) ports |
| System Monitoring | Chipset | | Winbond W83793G |
| | Voltage | | Monitors voltage for CPU, memory, chipset & power supply |
| | Temperature | | Monitors temperature for CPU & system environment |
| | LED | | Fan fail LED indicator Over temperature warning indicator |
| | Others | | Chassis intrusion detection Watchdog timer support |
| | Server Management | Onboard Chipset | |
| Server Engine Pilot2 IPMI Feature | | | IPMI 2.0 compliant baseboard management controller (BMC) Hardware-based security engine for SSL acceleration |
| Server Engine Pilot2 iKVM Feature | | | Highest resolution secured KVM over IP Dual 10/100 Mb/s MAC interfaces |
| Brand / ROM size | | | AMI / 4MB |
| BIOS | Feature | | Plug and Play (PnP) PCI2.3 /w/SM2.0 /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 | OS supported list | | Please refer to our 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) |
| | In/Non-operating Humidity | | 90%, non-condensing at 35° C |
| RoHS | RoHS 6/6 Complaint | | Yes |

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

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