DUAL-/socket
server/ workstation platform
for most of enterprise and HPC applications

S7002
S7002WGM2NR / S7002AG2NR

Entry dual-socket
server/ workstation platform
for most of enterprise and HPC applications

- Dual LGA1366 sockets support up to (2) Intel® Xeon® Processor 5500/ 5600 Series
- Support QPI 6.4/ 5.86/ 4.8 GT/s
- Intel® 5520 IOH
- Intel® ICH10R South Bridge
- (8) 240-pin DDR3 DIMM slots support up to 64GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (1) PCI-E Gen.2 x16 slot
- (2) PCI-E Gen.2 x8 slots
- (1) PCI-E x8 slot (w/ x4 link)
- (6) SATA-II connectors w/ RAID 0, 1, 10, 5 support
- (4) stacked 2-port SAS connectors w/ RAID 0, 1, 1E support (S7002WGM2NR)
- Onboard Audio (S7002AG2NR)
- (2) GbE LAN
- Onboard BMC w/ iKVM support (S7002WGM2NR)
- SSI CEB (12” x 10.5”) form factor

Specifications are subject to change without notice. Items pictured may only be representative.
S7002
S7002WGM2NR / S7002AG2NR

Specifications

Processors
- Supported CPU Series: Intel® Xeon® Processor 5500/5600 Series
- Socket Type / Qty: LGA1366 / (2)
- Thermal Design Power (TDP) wattage: 130W
- System Bus: Up to 4.8/5.86/6.4GT/s with Intel® QuickPath Interconnect (QPI) support

Chipset
- IOH / ICH: Intel® 5520 / ICH10R
- Super IO: Winbond W83627

Memory
- Supported DIMM Qty: (8) DIMM sockets
- DIMM Type / Speed: DDR3 800/1066/1333 RDIMM/UDIMM
- Capacity: Up to 64GB
- Memory channel: 6 Channels (3 Channels per CPU)
- Memory voltage: 1.5V
- Expansion Slots
  - PCI-E
    - (1) PCI-E Gen.2 x16 slot
    - (2) PCI-E Gen.2 x8 slots
    - (1) PCI-E x8 slot (w/ x4 link)
- Recommended TYAN® Riser Card: M2083-RS, PCI-E x16 1U riser card (left)
- Port Qty: 2
- Controller: Intel® 82574L

Storage
- SAS (opt.): (8) SAS connectors
- Controller: LSI SAS1068E (S7002WGM2NR only)
- Speed: 3.0 Gb/s
- RAID: RAID 0/1/1E (LSI Integrated RAID)
- Controller: (6)
- Controller: ICH10R
- Speed: 3.0 Gb/s
- RAID: RAID 0/1/10/5 (Intel® Matrix RAID)

Graphc
- Connector type: D-Sub 15-pin
- Resolution: 1600x1200@60Hz
- Chipset: Realtek ALC888 (S7002AG2NR only)
- Feature: HDA 2.0 spec. complaint

Audio
- USB: (9) USB2.0 ports (4 at rear, 4 via cable, 1 type A onboard)
- COM: (2) ports (1 at rear, 1 via cable)
- SAS: (8) SAS connectors
- Connector: (S7002WGM2NR only)
- VGA: (1) D-Sub 15-pin VGA port
- Audio (opt.): LINE IN, LINE OUT, MIC IN connectors
- (1) 2x5-pin front panel audio header (S7002WGM2NR only)
- RJ-45: (2) GbE ports
- Power: SSI 24-pin + 8-pin + 8-pin power connectors
- Front Panel: (1) 2x12 pin SSI front panel header
- SATA: (8) SATA II connectors

Input / Output
- Chipset: Winbond W83793G
- Voltage: Monitors voltage for CPU, memory, chipset & power supply
- Fan: Total (5) 4-pin headers
- Temperature: Monitors temperature for CPU & system environment
- LED: Fan fail LED indicator
- Others: Chassis intrusion detection

System Monitoring

Server Management
- Onboard Chipset: Onboard Aspeed AST2050
- AST2050 IPMI Feature (opt.): IPMI 2.0 compliant baseboard management controller (BMC)
  - Supports storage over IP and remote platform-flash
  - BIOS update
  - USB 2.0 virtual hub
  - (S7002WGM2NR only)
- Server Management: 24-bit high quality video compression
- AST2050 iKVM Feature (opt.): Dual 10/100 Mbps MAC interfaces
- BIOS: Brand / ROM size
- Form Factor: SSI CEB
- Board Dimension: 12"x10.5" (305x267mm)
- Operating System: Please refer to our OS supported list.
- Regulation:
  - FCC (DoC): Class B
  - CE (DoC): Yes
  - RoHS: 6/6 Complaint

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