



MB-G7B630-NR

Intel® Q965 Chipset, Socket 775-based Intel® ATX Board

PROCESSOR

- LGA 775 socket for:
 - Intel® Core™2 Quad
 - Intel® Core™2 Duo (Conroe family)
 - Intel® Pentium® D
 - Intel® Pentium® 4 or Intel® Celeron
 - Intel® Celeron D
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- Supports Intel Hyper-Threading Technology
- Supports 1066/800/533MHz FSB

CHIPSET

- Intel® chipset
 - Northbridge: Intel® Q965 Express chipset
 - Southbridge: Intel® ICH8DO

SYSTEM MEMORY

- Four 240-pin DDR2 DIMM sockets
- Supports DDR2 533, DDR2 667 and DDR2 800 DIMMs
- Supports dual channel (128-bit wide) memory interface
- Supports up to 8GB system memory
- Supports non-ECC unbuffered DIMMs

BIOS

- Award BIOS
- 16Mbit SPI flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 - Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB Keyboard/Mouse
 - Wake-On-LAN
 - Wake-On-Ring
- RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v2.0 specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors Vcore/VCC3/VBAT/3VSB/12V/1.25V/1.8V/5V voltages and failure alarm
- Monitors CPU/2nd/system fan speed
- Read back capability that displays temperature, voltage and fan speed
- Watchdog Timer function
- Built-in Intel Graphics Media Accelerator 3000

ONBOARD AUDIO FEATURES

- Realtek ALC262 High Definition audio CODEC
- 2-channel audio output
- 1 stereo DAC supports 16/20/24-bit PCM format with 44.1/48/96/192KHz sample rate
- 2 stereo ADCs support 16/20-bit PCM format with 44.1/ 48/96/192KHz sample rate
- S/PDIF-in/out interface

ONBOARD LAN FEATURES

- Dual LAN: Intel 82566DM and Marvell 88E8053 PCI Express Gigabit Ethernet controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

STORAGE INTERFACES

- Intel ICH8DO supports:
 - 5 Serial ATA ports
 - SATA speed up to 3Gb/s
 - RAID 0, RAID 1, RAID 5 and RAID 10
- Silicon Image SiI3811 SATA to PATA bridge supports:
 - One UltraDMA 133/100/66/33 IDE that supports one parallel ATA device (Master mode only)

IEEE 1394 INTERFACE

- VIA VT6307
- Supports two 100/200/400 Mb/sec ports

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DB-25 parallel port
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 2 RJ45 LAN ports
- 4 USB 2.0/1.1 ports
- Line-in, line-out and mic-in

I/O CONNECTORS

- 3 connectors for 6 additional external USB 2.0/1.1 ports
- 2 connectors for external IEEE 1394 ports
- 1 connector for an external COM 2 port
- 1 Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-in/out connector
- 1 connector for IrDA interface
- 5 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 4-pin 12V power connector
- 1 chassis open connector
- 1 front panel connector
- 3 4-wire fan connectors

EXPANSION SLOTS

- 1 PCI Express x16 slot
- 2 PCI Express x1 slots
- 4 PCI slots

TEMPERATURE

- Operating: 0oC to 60oC
- Non-operating: -40oC to 85oC

HUMIDITY

- Operating: 10% to 90%

PCB

- 4 layers, ATX form factor
- 30.5cm (12") x 24.4cm (9.6")