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G88 GIGABYTE G31MX-S2 775 INTEL MATX DDR2 800 VGA/SND/GBLAN

GIGABYTE GA-G31MX-S2 ATX DDR2 800 Snd/GbL/VGA

Intel G31+ ICH7 Chipset

Supports Intel® Core™ 2 multi-core and upcoming 45nm processors

Dual Channel DDR2 800 for outstanding system performance

Integrated Intel® Graphics Media Accelerator 3100 (Intel® GMA 3100)

Supports dual graphics with PCI-E interface

Integrated SATA 3Gb/s interface

Features high speed Gigabit Ethernet

Integrated 8-Channel High Definition audio

Specifications

CPU Support for an Intel® Core™ 2 Extreme processor/ Intel® Core™ 2 Quad processor/Intel® Core™ 2 Duo processor/ Intel® Pentium® processor Extreme Edition/Intel® Pentium® D processor/ Intel® Pentium® 4 processor Extreme Edition/Intel® Pentium® 4 processor/ Intel® Celeron® processor in the LGA 775 package

(Go to GIGABYTE's website for the latest CPU support list.)

Support for Intel® Hyper-Threading Technology

L2 cache varies with CPU

Front Side Bus 1333/1066/800 MHz FSB

Chipset North Bridge: Intel® G31 Express Chipset

South Bridge: Intel® ICH7

Memory 2 x 1.8V DDR2 DIMM sockets supporting up to 4 GB of system memory

Dual channel memory architecture

Support for DDR2 800/667MHz memory modules

(Go to GIGABYTE's website for the latest memory support list.)

Onboard Graphics Integrated in the North Bridge

Audio Realtek ALC888 codec

High Definition Audio

2/4/5.1/7.1-channel

Support for S/PDIF In/Out

Support for CD In

LAN RTL 8110SC chip (10/100/1000 Mbit)

Expansion Slots 1 x PCI Express x16 slot

1 x PCI Express x4 slot

2 x PCI slots

Storage Interface South Bridge:

1 x IDE connector supporting ATA-100/66/33 and up to 2 IDE devices

4 x SATA 3Gb/s connectors supporting up to 4 SATA 3Gb/s devices

iTE IT8718 chip:

1 x floppy disk drive connector supporting up to 1 floppy disk drive

USB Integrated in the South Bridge

Up to 8 USB 2.0/1.1 ports (4 on the back panel, 4 via the USB brackets connected to the internal USB headers)

Internal I/O Connectors 1 x 24-pin ATX main power connector

1 x 4-pin ATX 12V power connector

1 x floppy disk drive connector

1 x IDE connector

4 x SATA 3Gb/s connectors

1 x CPU fan header

1 x system fan header

1 x front panel header

1 x front panel audio header

1 x CD In connector

1 x S/PDIF In/Out header

2 x USB 2.0/1.1 headers

1 x chassis intrusion header

1 x power LED header

Back Panel Connectors 1 x PS/2 keyboard port Connectors

1 x PS/2 mouse port

1 x parallel port

1 x serial port

1 x D-Sub port

4 x USB 2.0/1.1 ports

1 x RJ-45 port

6 x audio jacks (Center/Subwoofer Speaker Out/Rear Speaker Out/Side Speaker Out/Line In/Line Out/Microphone)

I/O Controller iTE IT8718 chip

H/W Monitoring System voltage detection

CPU/System temperature detection

CPU/System fan speed detection

CPU overheating warning

CPU/System fan fail warning

CPU fan speed control

BIOS 1 x 4 Mbit flash

Use of licensed AWARD BIOS

PnP 1.0a, DMI 2.0, SM BIOS 2.3, ACPI 1.0b

Unique Features Support for @BIOS

Support for Download Center

Support for Q-Flash

Support for EasyTune

Support for Xpress Install

Support for Xpress Recovery2

Support for Virtual Dual BIOS

Bundle Software Norton Internet Security (OEM version)

Other Features Support for Microsoft® Windows® Vista/XP/2000

(Go to GIGABYTE's website for operating system support information.)

Form Factor Micro ATX form factor; 24.4cm x 21.5cm

Overview

Intel® Core™ 2 multi-core and upcoming 45nm processors

GA-G31MX-S2 supports Intel latest high performance CPU delivers the most energy-efficient performance available today. Based on Intel's Micro Architecture, the Intel multi-core processors with 4 cores and two shared L2 caches provide the best capability-per-watt solutions and are an ideal choice for multi-media enthusiasts and intensive multi-tasking environments. This cutting-edge processor offers significant performance boosts and provides an overall more energy efficient platform

Windows Vista Premium Logo Certified

Windows Vista Premium promises to deliver a streamlined computing experience designed to fundamentally change how users view, find and organize their digital information. With P35/G33/G31/P965/G965/946/945 solutions all enabling support for Vista Premium, GIGABYTE offers a fresh and unique desktop experience that will be more informative, intuitive and completely new...more

PCI Express Interface for dual graphics

Revolutionary PCI Express interface provides scalable bandwidth for multi-purpose usage. PCI-E x16 interface plus PCI-Ex4 slot support dual graphics and delivers the utmost graphics experience; PCI-E x1 interface delivers twice the bandwidth of PCI interface up to 250MB/s for new generation I/O peripheral devices.

Dual Channel DDR2 800

Get a jump in memory performance with the advanced technology of DDR2 800 memory architecture, which delivers superior performance for the most demanding applications

SATA 3Gb/s storage interface

The SATA specification doubles bus bandwidth from 1.5Gb/s to 3Gb/s. Native Command Queuing is a new specification that enables out-of-order execution of commands for efficient retrieval of data. Hot Plug support allows users to insert and remove hard disk drives without shutting off power to the system.

Intel® High Definition Audio

Intel® High Definition Audio enables 8 channel premium digital sound in the PC for an immersive surround sound experience. In addition, Intel HD Audio delivers multiple audio channels in your PC so you can listen to two different streams simultaneously in two separate rooms

Gigabit LAN connectivity

The Gigabit network interface delivers a high speed LAN connection with data transfer rate up to 1000Mb/s, providing new generation connectivity for the broadband era. Gigabit LAN is ideally for seamless internet connection such as streaming audio and video contents

Smart

The Smart featured motherboards of GIGABYTE S-series provide GIGABYTE proprietary innovative software such as Download Center, @BIOS, Q-Flash, Xpress Install, Boot menu, and Smart Fan. BIOS and driver management now becomes much easier and user friendly through GIGABYTE Smart features!...more

Safe

Safe is the key feature of GIGABYTE S-series motherboards with the following elements: Excellent hardware design reinforced BIOS protection through GIGABYTE Virtual Dual BIOS Technology and GIGABYTE BIOS Setting Recovery Technology. Unique system software such as Xpress Recovery 2, PC Health Monitor, HDD S.M.A.R.T., and C.O.M. further strengthen the stability and reliability of your PC!...more

RoHS compliant