

MB-898



(click to zoom)
[Datasheet in PDF](#)

FEATURES

- Supports Intel® Core™ 2 Duo / Pentium® D / Intel® Pentium® 4 HT / Celeron® D
Up to 3.8GHz+, 533MHz/800MHz/1066MHz FSB
- DDR2 DIMM x 4, max. 8GB
- ICH8 10/100 LAN or Intel PCI Express Gigabit Ethernet
- Integrated Intel® Q965 VGA, CRT support
- 4 x or 6 x SATA II (RAID option), 10 x USB 2.0, 4 x COM
- Watchdog timer, Digital I/O
- 4 x PCI, 2 x PCI Express (x1), 1 x PCI Express (x16) slots

MB898 SPECIFICATIONS

CPU Socket

LGA775

CPU

Intel® Core™ 2 Duo / Pentium® D / Intel® Pentium® 4 HT / Celeron® D

Up to 3.8GHz

CPU Front Side Bus (FSB)

533MHz / 800MHz / 1066MHz

Chipset

Intel® Q965 Express Chipset

MCH: Q965 + ICH8 mBGA

FWH

L2 Cache

256KB/512KB/1MB, 2MB/4MB, CPU integrated

BIOS

Award BIOS, ACPI supported

System Memory

Four DDR2 sockets, up to 8GB DDR SDRAM

PC533/667 DDR SDRAM

Integrated VGA

Q965 chipset built-in

Supports CRT interface

Shared memory, max. 224MB

LAN

10/100 BaseT LAN or

Intel® 82566DC PCI Express Gigabit LAN

(MB898F/MB898RF supports GbE)

RJ-45 on board

Audio

ICH8 built-in audio + AC97 codec

(Line out, Line, Mic jacks on board)

LPC I/O

W83627EHG chipset supports IrDA x 1, Parallel x 1,

COM1 (RS232), COM2 (RS232/422/485), FDC up to

1.44MB (slim-type), Hardware Monitor

Secondary I/O

USB

10 USB 2.0 ports (4 on board, 6 via pin header)

IrDA

Pin header

Digital I/O

4 in / 4 out

Watchdog Timer

Generates system reset; 256 levels

Hardware Monitoring

Built in W83627EHG; monitors system/CPU

temperature and voltage status

Expansion Slots

1 PCI Express x16, 2 PCI Express x1, PCI x4

Edge Connectors

PS/2 keyboard and mouse

VGA CRT

RJ-45

Audio jacks (x6)

4 USB ports

Serial Port (COM1)

Power Connector

ATX, 24-pin

Form Factor

ATX

Dimensions

305mm x 244mm (12" x 9.6")

Power Consumption

TBC

Environmental Factors:

Operating Temperature:

0°C~60°C (32°F~140°F)

Storage Temperature:

-20°C~80°C (-68°F~176°F)

Relative Humidity:

Fintek F81216: for COM3 & COM4 (RS-232)

10%~90% (non-condensing)

Serial ATA Interface

Four Serial II ATA ports, 3Gb/s
(Six SATA ports with RAID for MB898RF)

IDE Interface

One enhanced IDE supports 2 IDE devices featuring
UDMA33/66/100/133, PIO mode 4 and bus master
Compact Flash Socket on board

Serial Ports

One RS-232/422/485 and three RS-232 ports

Remarks: *MB898 supports Intel® Core 2 Duo, Pentium® D dual core CPU and Pentium® 4 single core CPU. It also supports EMT64 processors.*

Ordering Information:

MB898 - LGA775 Intel® Q965 ATX Motherboard w/ VGA, 10/100 LAN, SATA x4

MB898F - LGA775 Intel® Q965 ATX Motherboard w/ VGA, PCI Express Gigabit LAN, SATA x4

MB898RF - LGA775 Intel® Q965 ATX Motherboard w/ VGA, PCI Express Gigabit LAN, SATA x6 w/ RAID

Remarks: Add (-R) after the model name for RoHS-compliant version when ordering.



Edge Connectors on MB898 (GbE is for MB898F)