

MB865

World's First Intel® LGA775 Pentium® 4 processor Industrial Motherboard



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



FEATURES

- Supports Pentium® 4 / Celeron® D processors
- Up to 3.8GHz, 533/800MHz FSB
- DDR DIMM x 2, max. 2GB
- Integrated 82865G VGA, shared memory, CRT support
- Integrated 10/100 BaseT and optional Gigabit LAN
- Watchdog timer, Digital I/O, 4x serial
- Type 2 CF socket, 2x SATA, 6x USB
- 4x PCI slot, 2x ISA, 1x AGP

MB865 SPECIFICATIONS

CPU Socket

LGA775

CPU

Intel® Pentium® 4 / Celeron® D

Up to 3.8GHz

CPU Front Side Bus (FSB)

533MHz / 800MHz

Chipset

Intel® 865G + ICH5

L2 Cache

512K/1MB/2MB, CPU integrated

BIOS

Award BIOS, ACPI supported

System Memory

Two DDR sockets support up to 2GB DDR SDRAM

PC266/333/400 DDR SDRAM, without ECC

Integrated VGA

Integrated 82865G(V) AGP8X VGA for CRT interface

Primary LAN

Intel® 82551QM 10/100Mb Ethernet controller

Secondary LAN (optional)

Intel® 82547GI Gigabit Ethernet controller

Audio

Built-in audio with AC97; 5.1 channel support

LPC I/O

W83627HF chipset supports IrDA x 1, Parallel x 1, COM1 (RS232), COM2 (RS232/422/485), FDC up to 1.44MB (slim-type), Hardware Monitor (3 thermal inputs, 6 voltage monitor inputs, VID0-4, 3 fan headers)

Secondary I/O

Fintek F81216: COM3 & COM4 (RS-232)

IDE Interface

Two enhanced IDE supports 4 IDE devices including UDMA33/66/100, PIO mode 4 and bus master

Serial Ports

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

Serial ATA

Supports 2 ports

Watchdog Timer

Generates system reset; 256 levels

Hardware Monitoring

Built in W83627HF; monitors system/CPU temperature and voltage status

USB

Supports 2 USB ports via pin header and 4 ports on board (USB 2.0)

IrDA

Pin header

Keyboard and Mouse Connector

PS/2 type

Extra Features

ATX 12V power connector (24-pin)

Form Factor

ATX

Dimensions

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

Power Consumption

Intel® Pentium® LGA775 processor 3.6GHz with 2 x 512MB DDR memory

+3.3V: 3.35A; +5V: 3.76A; +12V: 9.62A

Intel® Celeron® D LGA775 processor 2.8GHz with 2 x 512MB DDR memory

+3.3V: 3.06A; +5V: 3.49A; +12V: 5.16A

Environmental Factors:

Operating Temperature:

0°C~60°C (32°F~140°F)

Storage Temperature:

-20°C~80°C (-68°F~176°F)

Relative Humidity:

10%~90% (non-condensing)

Ordering Information:

MB865F - LGA775 Intel® 865G ATX Motherboard w/ VGA, 10/100 and Gigabit LAN, 2x ISA, 4x PCI, 1x AGP

MB865 - LGA775 Intel® 865G ATX Motherboard w/ VGA, 10/100, 2x ISA, 4x PCI, 1x AGP

Optional - slim FDD cable / FDD adapter / FDD cable for 3.5-inch FDD

MB865 Versions	Chipset	10/100 LAN	Gigabit LAN	AGP Slot
MB865	865G	Yes	No	Yes
MB865F	865G	Yes	Yes	Yes

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