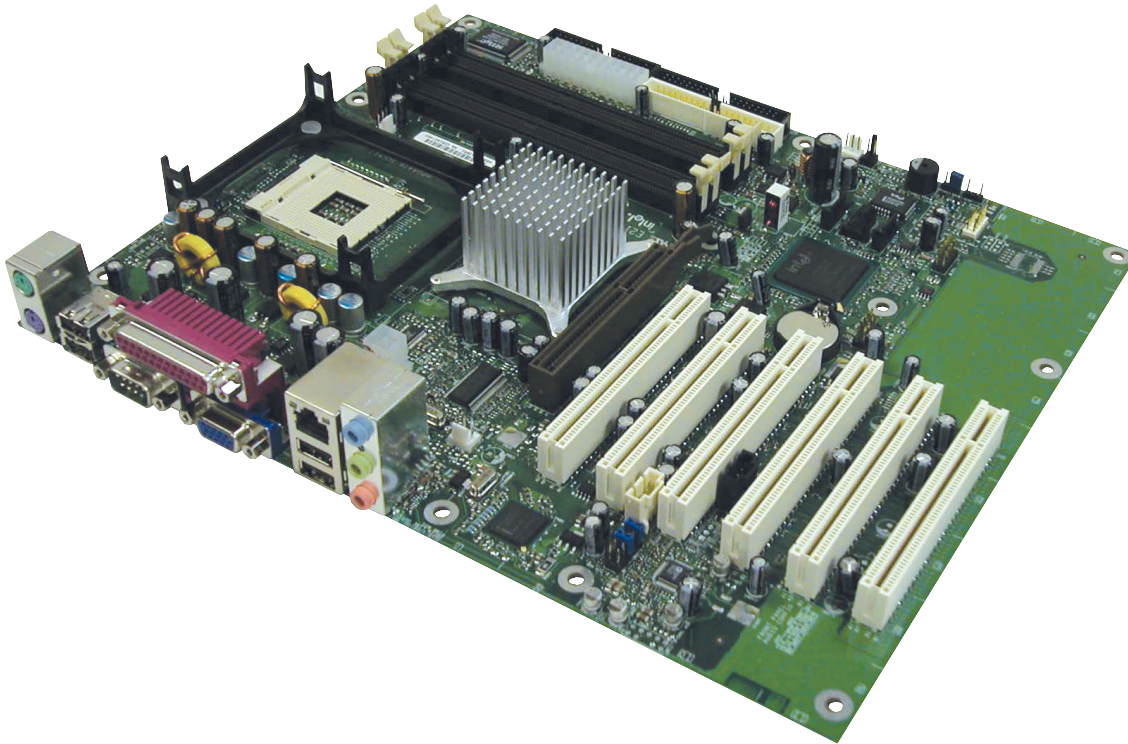


- **MBATX-865G-VEA**
- **Intel® Pentium® 4, 865G**



MBATX-865G-VEA is the next generation motherboard that uses the Intel 865G chipset featuring Intel Extreme Graphics 2 using Dynamic Video Memory Technology (DVMT). This is a true low-cost, high-performance graphics solution. It has four DIMM sockets designed to support up to 4GB of DDR400 SDRAM memory (also supports DDR333 and DDR266). The board supports either single- or dual-channel operation.

The board has six PCI expansion slots for custom system configurations and future add-in card upgrades. Other features include: eight Hi-Speed USB 2.0 ports (four rear ports and headers for four front-panel USB ports) SATA150 and Ultra ATA-100 connectors which will support new-generation serial ATA-150 (two ports) and current generation ATA (two channels) storage devices.

- **Support for an Intel Pentium 4 processor in an mPGA478 socket with a 400/533/800MHz system bus**
- **Hyper-Threading technology support**
- **Four 184-pin DDR 400/333/266 SDRAM DIMM sockets, up to 4GB**
- **Intel 865G chipset**
- **Six PCI bus add-in card connectors**

# ► MBATX-865G-VEA - Technical Specifications

## Processor

- Intel® Pentium® 4 processors supporting Hyper-Threading technology with 800 or 533MHz system bus in the mPGA478-pin package
- Intel Pentium 4 processors (1.6, 1.8, 2, 2.2GHz or higher) with 533 or 400MHz system bus in the mPGA478-pin package
- Intel Celeron® processors (2GHz or higher) in the mPGA478-pin package

## Chipset

- Intel 82865G Graphics Memory Controller Hub (GMCH) with accelerated hub architecture bus
- Intel 82801EB I/O Controller Hub (ICH5) with accelerated hub architecture bus
- Intel 82802EB Firmware Hub (FWH)

## Intel ICH5 I/O

- Ultra ATA-100/66

## Controller Hub

- Six PCI request-grant pairs for support of six PCI bus masters
- Two SATA150 (1.5Gbps) ports
- Intel PRO/1000 network connection

## I/O

- Integrated super I/O LPC bus controller
- Six PCI local bus slots
- Designed for PC2001

## USB 2.0

- Integrated Intel ICH5 controllers:
  - Four back-panel ports (two dual stack)
  - Four front-panel ports (via two headers requiring cabling to front panel)

## System Memory

### Memory Capacity

- Four 184-pin DIMM connectors supporting up to four double-sided DIMMs

### Memory Types

- DDR400 SDRAM memory (when used with Intel processor with 800MHz system bus)
- DDR333 SDRAM memory (when used with Intel processor with 800 or 533MHz system bus)
- DDR266 SDRAM memory
- Non-ECC RAM (ECC memory will run in non-ECC mode)

### Memory Modes

- Dual- and single-channel operation support

### Memory Voltage

- 2.5V

## Video

- Intel Extreme Graphics 2 controller
- The Extreme Graphics 2 controller is integrated within the Intel 82865G Graphics and Memory Controller Hub (GMCH). When an AGP add-in video card is installed, the integrated Intel Extreme Graphics 2 controller is disabled.

## Onboard Audio

- Intel 82801EB I/O Controller Hub (ICH5) with an Analog Devices\* AD1985 audio codec to create 6-channel audio solution

## Hardware Management Features

- System chassis fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- Power management support for ACPI 1.0b

## Wake-Up From Network

- Wired for Management (WfM) 2.0 compatible
- Support for system wake-up using an add-in network interface card with remote wake-up capability or integrated LAN

## Expansion Capabilities

- Six PCI bus add-in card connectors
- One universal 1.5V AGP 3.0 connector supporting up to AGP 8X

## Jumpers

- Single configuration jumper design
- Jumper access for BIOS configuration mode

## Front-Panel Connectors

- Reset, HD LED, power on/off, standby header
- Two front-panel USB headers
- Front-panel audio header

## Rear I/O

- Four USB 2.0 ports
- One VGA port
- One Parallel port
- One Serial port
- 2-Ch. and 6-Ch. Audio
- One PS/2 keyboard, one PS/2 mouse
- One LAN port

## Dimensions (D x H)

- 13.3 x 4.8-inch (338 x 122mm)

## BIOS

- System BIOS
- 4Mb FLASH EEPROM with Intel/AMI® BIOS featuring Plug-n-Play, IDE drive auto-configure
- Advanced configuration and power interface V1.0b, DMI 2.0, multi-lingual support

## Intel Rapid BIOS Boot

- Optimized POST for faster access to PC from power-on

## Power Requirement

- ATX 12V

## Environmental

### Operating Temperature

- 0 ° to 55 °C (32 ° to 131 °F)

### Non-Operating Temperature

- -40 ° to 70 °C (-40 ° to 158 °F)

## Safety Regulations

- U.S. and Canada UL 1950, Third edition-CAN/CSA C22.2 No. 950-95 with recognized U.S. and Canadian component marks
- Europe Nemko certified to EN 60950
- International Nemko certified to IEC 60950 (CB report with CB certificate)

## EMC Regulations (tested in representative chassis)

- U.S. FCC Part 15, Class B
- U.S. FCC Part 15, Class B open-chassis (cover off) testing
- Canada ICES-003, Class B
- Europe EMC directive 89/336/EEC; EN 55022:1998 Class B; EN 55024:1998

## OS Support

- Windows®2000/XP

## Support

- Superior pre- and post sales technical support
- 2-year limited warranty



### Corporate Offices

**US / Canada**  
6260 Sequence Drive  
San Diego, CA 92121-4371  
Tel. (858) 677-0877  
Fax (858) 677-0898  
sales@us.kontron.com



**Europe, Middle East and Africa**  
Oskar-von-Miller-Straße 1  
D-85386 Eching/München Germany  
Tel. +49 81-65 77 0  
Fax +49 81-65 77 219  
sales@kontron.com



**Asia Pacific**  
6F No 9, Lane 235, Pao Chiao Road  
Hsin Tien 231, Taipei, Taiwan  
Tel. +886 2 2910 3532  
Fax +886 2 2910 3482  
sales@kontron-asia.com

