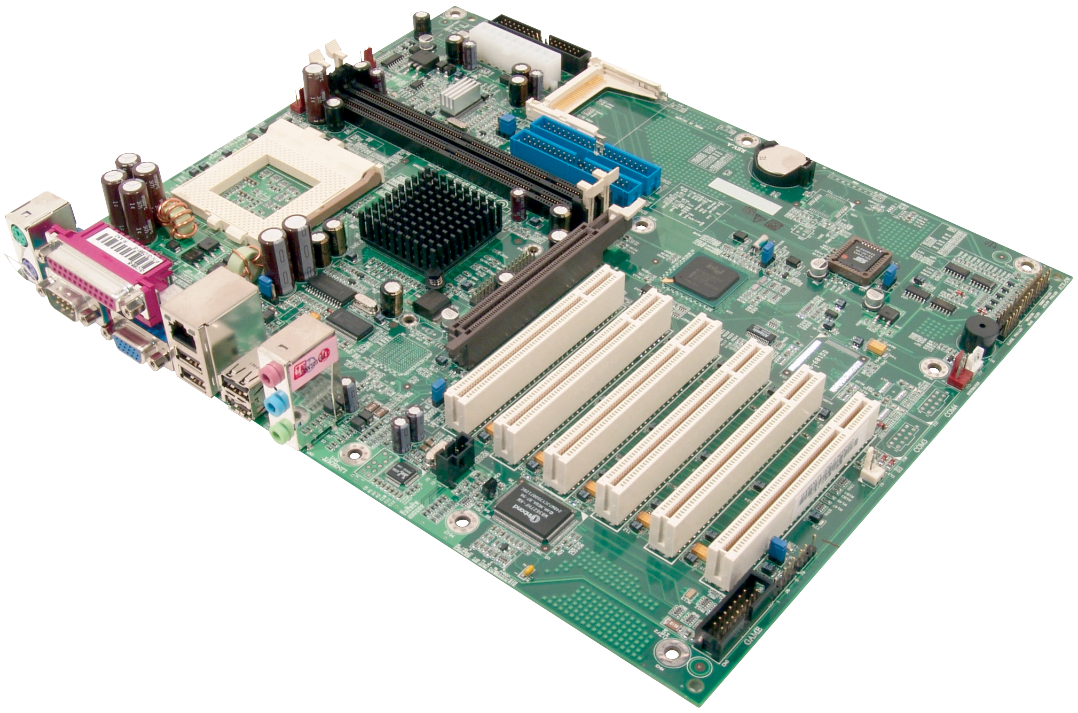
MBATX-815EB-VEA

Intel® Pentium® III, 815E B-step



The MBATX-815EB-VEA features the 815E B-step chipset which supports an Intel Pentium III processor, resulting in superior CPU performance. The MBATX-815EB-VEA motherboard supports Internet applications and 3D imaging.

The MBATX-815EB-VEA supports PC133/100 Non-ECC SDRAM up to 512MB. The board has six PCI expansion slots for custom system configurations and future add-in card upgrades. Other features include: voltage, fan speed, and temperature monitoring.

Kontron provides revision control and long product life to MBATX-815EB-VEA. It reduces long-term costs for system testing, certification, and maintenance. It is ideal to use in a variety of applications.

- **Supports Intel Pentium III or Intel Celeron® processors**
- **Intel 815E B-step chipset (66/100/133MHz FSB)**
- **Seven expansion slots: six PCI and one AGP (4X/2X)**
- **Onboard LAN**
- **Onboard audio and video**
- **Supports up to four USB 1.1**
- **CompactFlash™ socket**
- **DVO Intel header (digital video out)**

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MBATX-815EB-VEA - Technical Specifications

Processor
Intel® Pentium® III processor
- FCPGA2 133MHz FSB (1.13 to 1.26GHz on 0.13µ)
- FCPGA 133MHz FSB (533EB - 1GHz)
- FCPGA 100MHz FSB (500E-750, 850MHz to 1.1GHz)

Intel Celeron® processor
- FCPGA2 100MHz FSB (>=1.2GHz on 0.13µ)
- FCPGA 100MHz FSB (800MHz to 1.1GHz)
- FCPGA 66MHz FSB (566 to 700MHz)

Chipset
- Intel 815E B-step

System Memory
- 32 to 512MB memory using unbuffered DIMMs
- Two 168-pin DIMM sockets
- Uses x64 PC-133/PC-100 SDRAM DIMM (3.3V) for 133/100MHz system memory bus

Bios
- Award BIOS, Windows®95/98/2000/ME/XP Plug-n-Play compatible
- Supports SCSI sequential boot-up
- FLASH EPROM for easy BIOS upgrades
- Supports DMI 2.0 function

Energy Efficient Design
- Supports ACPI specification and OS directed power management
- Supports ACPI STR (Suspend to RAM) function
- Wake-on events include
  - Wake-on USB keyboard
  - Wake-on ring (through internal or external modem)
  - Wake-on LAN
  - Wake-on-keyboard/wake-on-mouse
  - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Hardware supports SMI green mode
- Microsoft®/Intel APM 1.2 compliant
- Soft power supported - ACPI v1.0a specification
- AC power failure recovery

Damage Free Intelligence
- Watchdog timer function
- Monitors CPU/system temperature and overheat alarm
- Monitors 5VSB/VBAT/VTT (1.5/1.25V)/3.3V/5V/±12V/CPU voltages and failure alarm
- Monitors CPU/system/second fan speed and failure alarm
- Automatic system/second fans on/off control
- Read back capability that displays temperature, voltage, and fan speed
- Supports Intel processor thermal diode output (real processor temperature)
- Opened chassis alarm
- Supports hardware Y2K function

Onboard Graphics Features
Graphics memory
- Shares 1MB of the system memory
- Uses Dynamic Video Memory Technology (DVMT)

Graphics controller
- 3D hyper pipelined architecture
- 2D hardware and motion video acceleration
- 9-bit precision hardware motion compensation assistance for software MPEG2 decode
- Software DVD at 30fps

2D graphics features
- Resolutions: up to 1600 x 1200 in 8-bit color at 85Hz refresh
- 3 Operand Raster BitBLTs
- 64 x 64 x 3 color transparent cursor

3D graphics features
- Flat and Gouraud shading
- MIP mapping with tri-linear and anisotropic filtering
- Full color specular/Z-buffering
- Fogging atmospheric effect
- 3D pipe 2D clipping/backface culling

DVO Intel (digital video out) interface

Software drivers
- Windows 95/98/2000/NT 4.0/Me/XP

Onboard Audio Features
- 18-bit stereo full-duplex codec with independent variable sampling rate
- High quality differential CD input
- True stereo line level outputs

Onboard LAN Features
- Uses 82562 Fast Ethernet controller
- Integrated IEEE 802.3, 10Base-T and 100Base-Tx compatible PHY

PCI IDE Interface
- Supports ATA/33, ATA/66, and ATA/100 hard drives
- PIO mode 4 enhanced IDE (data transfer rate up to 14MBps)
- Bus mastering reduces CPU utilization during disk transfer
- Supports ATAPI CD-ROM, LS-120, and ZIP

Processor Socket
- Socket 370
- Equipped with switching voltage regulator that automatically detects 1.05 to 1.825V

Accelerated Graphics Port (A.G.P.)
- Supports AGP 4X up to 1066MBps and AGP 2X up to 533MBps bandwidth for 3D graphics applications

Rear Panel I/O Ports
- Four USB 1.1 ports
- One RJ45 LAN port
- One DB-9 serial port
- One DB-15 VGA port
- One DB-25 parallel port
- One mini-DIN-6 PS/2 mouse port
- One mini-DIN-6 PS/2 keyboard port
- Three audio jacks: line-out, line-in, and mic-in

Expansion Slots
- One universal AGP slot that supports 4X/2X AGP card and GPA card
- Six PCI slots

Circuit Board (PCB)
- Six layers, ATX form factor
- 12 x 9.6-inch (305 x 244mm)

Safety
- UL, cUL, FCC Class B, CE

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

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