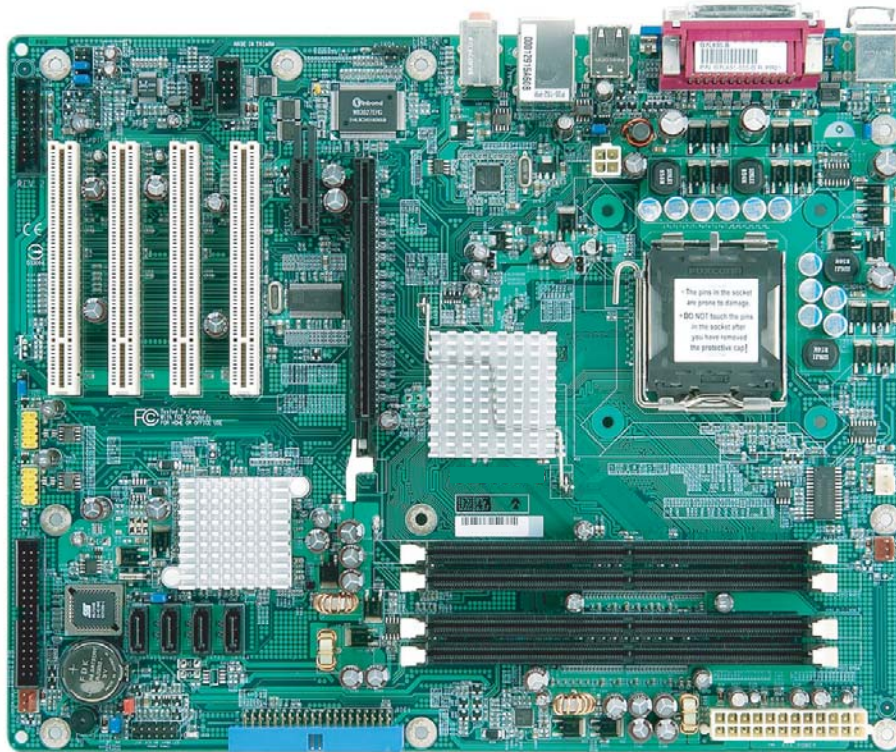


- **MBATX-945G-VGA**
  - Intel 945G chipset
- Socket 775-based Intel® ATX board



### Features of the MBATX-945G-VGA:

- LGA 775 socket supports Intel® Pentium® D, Pentium® 4, Celeron® D or Celeron® processors
- Intel® Enhanced Memory 64 Technology (EMT64T)
- Enhanced Intel® SpeedStep Technology (EIST)
- Intel® Hyper-Threading Technology (HTT)
- 1066/800/533MHz FSB
- Intel® 945G Express chipset
- Up to 4GB system memory
- Built in Intel® Graphics Media Accelerator 950
- Realtek ALC202A Onboard Audio
- Marvell 88E8053 PCI Express Gigabit Ethernet Controller Onboard LAN
- Supports four SATA (Serial ATA) interfaces compliant with SATA 1.0 specification
- Expansion Slots include 1 PCI Express x16 slot, 1 PCI Express x1 slot and 4 PCI slots
- UL, cUL, FCC Class B and CE approved

## ► MBATX-945G-VGA Technical Specifications

### PROCESSOR (Socket 775-based Intel®)

- LGA 775 socket for:
  - Intel® Pentium® D
  - Intel® Pentium® 4
  - Intel® Celeron® D
  - Intel® Celeron®
- Intel® Enhanced Memory 64 Technology (EMT64T)
- Enhanced Intel® SpeedStep Technology (EIST)
- Intel® Hyper-Threading Technology (HTT)
- 1066/800/533MHz FSB

### CHIPSET

- Intel® 945G chipset
  - Intel® 945G Express chipset
  - Intel® ICH7

### SYSTEM MEMORY

- Four 240-pin DDR2 DIMM sockets
- Supports DDR2 533 and DDR2 667 DIMMs
- Supports dual channel (128-bit wide) memory interface
- Up to 4GB system memory

### BIOS

- 4Mbit flash memory

### ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
  - Wake-On-PS/2 Keyboard/Mouse
  - Wake-On-USB Keyboard/Mouse
  - Wake-On-Ring
  - Wake-On-LAN
  - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control

### DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors Vcore/VCC3/VBAT/3VSB/12V/1.5V/1.8V/5V voltages and failure alarm
- Monitors CPU/system/second fan speed & failure alarm
- Read back capability that displays temperature, voltage, and fan speed
- Watchdog timer function

### ONBOARD GRAPHICS

- Built in Intel® Graphics Media Accelerator 950

### ONBOARD AUDIO

- Realtek ALC202A
- 18-bit stereo full-duplex codec with independent variable sampling rate
- 2-channel audio output

### ONBOARD LAN

- One Marvell 88E8053 PCI Express Gigabit ethernet controller
- Full duplex support at 10 Mbps, 100 Mbps and 1 Gbps
- Supports IEEE 802.3U auto-negotiation

### SERIAL ATA INTERFACE

- Supports four SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s

### IDE INTERFACE

- Supports up to UltraDMA 100Mbps hard drives
- Supports PIO IDE transfers up to 16MB/sec

### REAR PANEL I/O PORTS

- 4 USB 2.0/1.1 ports
- 1 RJ45 LAN port
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 1 DB-25 parallel port
- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 audio jacks: line-out, line-in and mic-in

### I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for 1 external COM 2 port
- 1 Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-out connector
- 1 connector for IrDA interface
- 4 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 chassis open connector
- 1 4-pin 12V power connector
- 1 front panel connector
- 3 fan connectors

### EXPANSION SLOTS

- 1 PCI Express x16 slot
- 1 PCI Express x1 slot
- 4 PCI slots

### CIRCUIT BOARD (PCB)

- 4 layers, ATX form factor
- 30.5cm (12") x 24.4cm (9.6")

### SAFETY

- UL, cUL, FCC Class B, CE



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