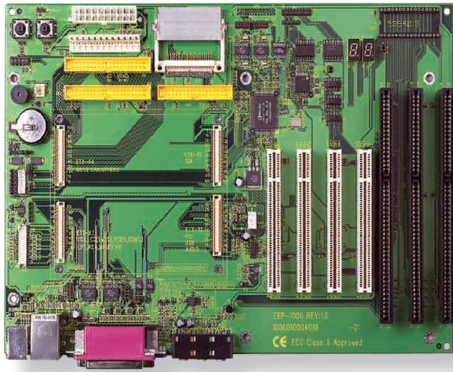




# PBE-1000

ETX® Evaluation Board in ATX Form Factor



## ETX

### Features

- ETX® 2.X Compliant
- 4 x PCI Slots, 3 x ISA Slots
- POST Code Diagnostics
- Secondary Multi I/O (COM3, COM4)
- CompactFlash or Disk on Chip
- AT or ATX Power Supply

## System

**Storage** 2 x Ultra ATA 100, support up to 4 IDE devices (Secondary IDE depends on CPU module)

1 x Floppy disk drive shared with parallel port

## I/O

**Serial Port** 4 x COM ports (COM1, 3, 4: RS-232 ports; COM2: RS-232/422/485 selectable)  
COM3, COM4, BIOS integrated W83977EF secondary I/O controller

**Parallel Port** SPP/EPP/ECP mode shared with Floppy

**Digital I/O** 16-bit Digital Input/Output, 8-input/8-output

**USB Port** 4 x USB connectors

**KB/MS** 1 x PS/2 Keyboard connector  
1 x PS/2 Mouse connector

**Expansion Bus** 4 x PCI Slots  
3 x 16-bit ISA Slots

## Ethernet

1 x RJ-45 Ethernet connector with LED

## Audio

**Interface** Mic-in/Line-in/Line-out connector

## Display

**Video** Analog RGB, LVDS, TV-out connector (depend on CPU module)

## Mechanical & Environmental

**Power Requirement** AT Type: P9/P8 12-pin connector  
ATX Type: 20-pin source with 3-pin ATX control

**Operating Temp.** 0 ~ 60°C (32 ~ 140°F)

**Operating Humidity** 0 ~ 90% (non-condensing)

**Dimensions (L x W)** 305 x 210 mm (12" x 8.27")

## What's included onboard?

The evaluation board is designed in a standard ATX form factor and allows the addition of commercially available add-on cards. It can be used free standing or simply be mounted in a commercial ATX desktop case. The board includes connectors and interfaces for PS/2 Keyboard and Mouse, USB, Serial, Parallel, Ethernet, Sound, Floppy disk and IDE devices. It supports the connection of a wide variety of visual devices such as Flat Panel LVDS displays, Analog RGB displays and has a TV-out port. Supported storage media include CompactFlash, Disk On Chip and other ATA-based devices such as hard disk and CD-ROM. Power is supplied by means of an AT or an ATX power connector. Additional ATX On/Off soft and Reset switches are included on board. All evaluation boards come standard with a Dual LED POST function that monitors and gives information about the BIOS when booting the system.

## Advantage

Since the standard ATX form-factor board also uses the ETX® standard, commercially available cards can be added. This way you can extend the functionality of off-the-shelf ETX® cores to match your application requirements. Functional prototypes can now be used in a very early project stage for hardware evaluation. Software development of a custom ETX® carrier board that integrates all these additional function takes place in a separate effort. Development time of custom ETX® carrier boards is a minimal effort that takes normally around one or two months. By using the ETX® Module that starts from a readily available system core, hardware design time and cost is minimized as your attention can be focused on parts of the system unique to your application.

## Ordering Information

**PBE-1000 R2.1** ATX form factor ETX® evaluation board with POST, secondary I/O and flash disk socket

**CBK-05-1000-00** Cable kit

- 1 x FDD cable
- 3 x COM port cables
- 1 x USB cable
- 2 x IDE cables
- 1 x TV-out cable