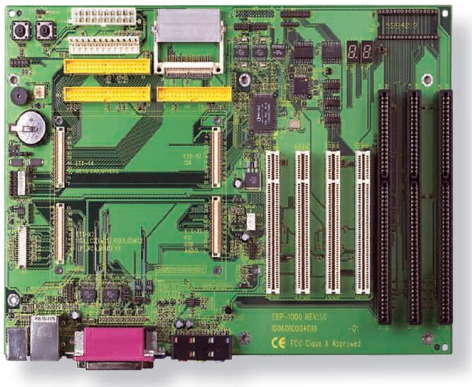
PBE-1000

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 ~ 60ºC (32 ~ 140ºF)
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

All specifications are subject to change without notice.