

➤ ETX-P1



➤ Embedded Technology eXtended

- very inexpensive choice
- highly integrated and fast
- without active cooling

Product Overview

The **ETX-P1** (Embedded Technology eXtended) is an extreme compact Intel® Pentium® MMX™ based PC module with consistent low power design. The low power Intel® Pentium® processor allows the usage of the board without active cooling in applications, where space limitations (the maximum height without heat sink is only 10 mm!) are major requirements. It is now possible to create modular systems, combining exchangeable CPU performance with baseboards, carrying only the connectors and additional functions needed. This reduces development costs and speeds up application design. Despite the very little board dimensions, the **ETX-P1** offers all standard interfaces such as sound, Ethernet, USB and high speed AGP graphic. The SoundBlaster™ compatible soundchip is supported by most operating systems. For networking purposes the **ETX-P1** comes with a 10/100 MBit Ethernet controller which allows an easy Intranet/Internet access. Total connectivity is guaranteed by the huge amount of communication interfaces like 2 serial TTL ports, an EPP/ECP parallel port, 2 USB ports and the 10/100 MBit Ethernet. The ATI™ Rage mobility AGP video controller operates CRT monitors as well as LVDS LCD panels. With its internal 4 MByte video RAM, resolutions up to 1600x1200 with high color depth can be displayed. You're looking for a secure and EMI tolerant boot medium? As an option a 8 MByte IDE compatible Flash-Disk is already integrated on the module! For further expansions two IDE ports with Ultra33 DMA capabilities are available on the SMT bus connectors. They do not provide the PCI bus only, the ISA bus signals are also available. A lot of existing ISA boards can still be used via an ISA slot on a baseboard. This avoids expensive redesigns of well proven ISA cards to PCI versions for standard PC motherboards.

With this innovative ETX concept, you are
...always a Jump ahead

Technical Data

- **CPU:** Mobile Intel® Pentium® MMX™ 266 MHz
- **DRAM:** 1 DIMM socket, max. 256 MByte SDRAM
- **Cache:** 512 kByte 2nd Level
- **Bootable Flash Harddisk:** 8 MByte IDE compatible on board expandable by chipDISK and external flash
- **Sound:** SoundBlaster™ Full duplex
Line In and Line Out Stereo
Microphone In Mono
3D audio effect processor
- **System Controller:** Fan and Temperature Control supported via SMI (System Management Interface)
- **High Speed AGP video controller:** ATI RAGE MOBILITY
4/ 8 MByte Video RAM on Chip
Simultaneous and independent operation of LCD and CRT monitor
DVD hardware decoder
MPEG-2 hardware decoder
2D/ 3D Acceleration
- **Resolutions CRT to LCD:** VGA 640x480 32Bit
SVGA 800x600 32Bit
XGA 1024x768 32 Bit (8 MByte)
SXGA 1280x1024 32Bit (8MByte)
UXGA 1600x1200 32Bit (CRT only)
- **LCD Panel Support:** Dual Channel LVDS 110 MHz
- **Serial Interfaces:** 2 x TTL
- **Parallel Port:** EPP/ ECP, bi-directional
- **Floppy Interface**
- **Harddisk:** 2 x EIDE interface
Ultra33 DMA mode
- **Ethernet:** 10/ 100Base-T Twisted Pair (RJ45)
- **2 x USB ports**
- **Dimensions:** 95 x 114 x 10 mm (3.7x4.5x0.4")
- **Low Power Consumption:** 5V only, 5..8W
depending on operating system and options
- **Temperature:** operation: 0° to 60°C
storage: -10° to 85°C
- **Humidity:** operation: 10% to 90%
storage: 5% to 95%
(non condensing)

Article	Part.-No.	Description
ETX-P1-AL	18001-0016-26-1	266 MHz, with graphic, 16 MByte flash, sound, Ethernet
ETX-P1-EG	18001-0000-26-1	266 MHz, with graphic, no flash, no sound, Ethernet
ETX-P1-EG Sound	18001-0000-26-3	266 MHz, with graphic, no flash, sound, Ethernet
ETX-P1-00	18001-0000-26-0	266 MHz, no graphic, no flash, no sound, no Ethernet
ETXeval	18010-0000-00-0	ATX Baseboard for ETX modules
ETX-P1-DOC	96035-0092-00-0	Manual for ETX-P1 CPU module, all versions
SDRAM-SODIMM-32M	97005-3200-00-0	SDRAM SODIMM memory module with 32 MByte
SDRAM-SODIMM-64M	97005-6400-00-0	SDRAM SODIMM memory module with 64 MByte
SDRAM-SODIMM-128M	97005-1280-00-0	SDRAM SODIMM memory module with 128 MByte
SDRAM-SODIMM-256M	97005-2560-00-0	SDRAM SODIMM memory module with 256 MByte

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 & Africa
Brunniesenstr. 16
94469 Deggendorf
Tel.: +49 (991) 370 24-100
Fax: +49 (991) 370 24-102
sales-kem@kontron.com

Asia Pacific
5F-1, 341, Sec 4, Chung Hsiao E.
Rd, Taipei, Taiwan
Tel: +886 2 2781 5791
Fax: +886 2 2741 7379
sales@kontron.com.tw

