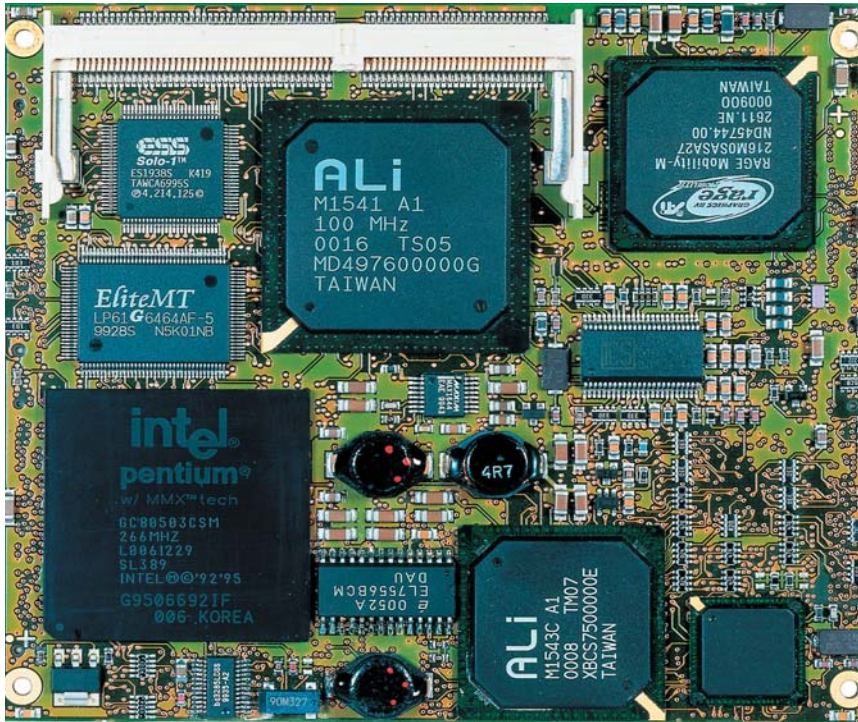


➤ ETX-P1



original size

➤ Embedded Technology eXtended

- Intel® Pentium® MMX™ processor with dedicated ATI® graphics controller
- Highly integrated and fast
- Low power consumption

► 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 Information

Processor	Mobile Intel® Pentium® MMX™ 266 MHz
DRAM	1 DIMM socket, max. 256 MByte SDRAM
Cache	512 kByte 2 nd Level
Bootable Flash Harddisk	16 MByte IDE compatible on board
Sound	SoundBlaster™ Full duplex, Line In and Line Out Stereo, Microphone In Mono, 3D audio effect processor
Video Controller	ATI RAGE MOBILITY, 4/8 MByte Video RAM on Chip, simultaneous and independent operation of LCD and CRT monitor, motion compensation and IDCT for MPEG2/DVD decoding
Resolutions CRT and LCD	VGA 640x480 32Bit, SVGA 800x600 32Bit, XGA 1024x768 32 Bit(8MByte), SXGA 1280x1024 32Bit (8MByte), UXGA 1600x1200 32Bit (CRT only)
LCD Panel Support	Dual Channel LVDS 110 MHz

Serial Interfaces	2x TTL (16550 compatible)
Parallel Port	EPP/ ECP, bi-directional
Floppy Port	shared with LPT
Harddisk	2x EIDE interface Ultra33 DMA mode
Ethernet	10/100Base-T Twisted Pair (RJ45)
USB	2x USB 1.1 OHCI ports
Dimensions	95 x 114 x 10 mm (3.7x4.5x0.4")
Low Power Consumption	5V only, 10W typical
Temperature (*)	operation: 0° to 60°C, storage: -10° to 85°C
Humidity	operation: 10% to 90%, storage: 5% to 95% (non condensing)

► Ordering Information

(*) see manual for details

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-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

Europe, Middle East & Africa
Brunnwiesenstr. 16
94469 Deggendorf - Germany

US/ Canada
6260 Sequence Drive
San Diego, CA 92121-4371

Asia Pacific
5F-1, 341, Sec 4, Chung Hsiao E.
Rd, Taipei, Taiwan

Tel.: +49 (0)991/ 370 24-100
Fax: +49 (0)991/ 370 24-102

Tel.: (858) 677-0877
Fax: (858) 677-0898

Tel: +886 2 2781 5791
Fax: +886 2 2741 7379

sales-kem@kontron.com

sales@us.kontron.com

sales@kontron.com.tw