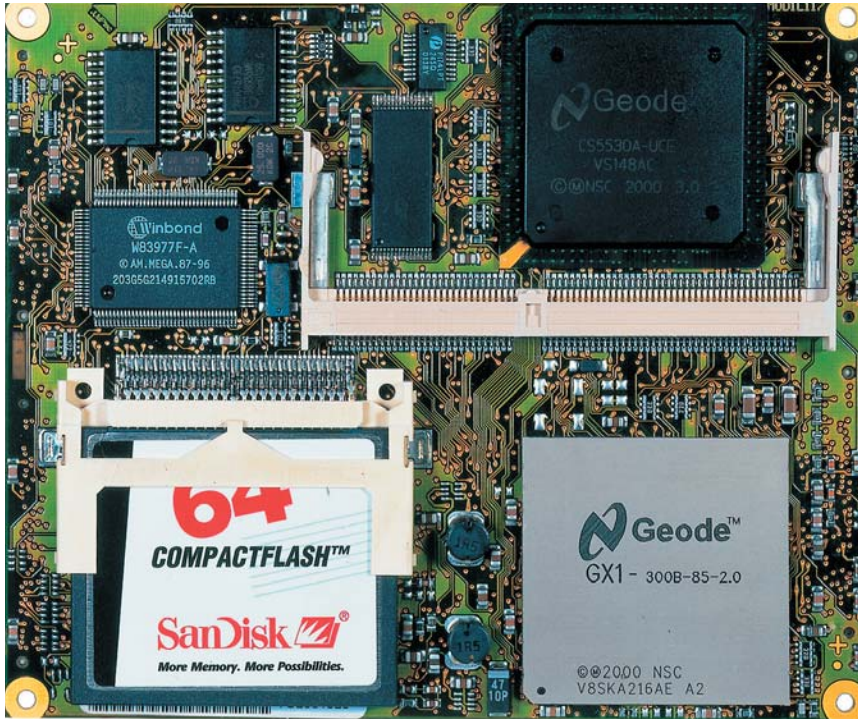


# ➤ ETX-mgx



original size

## ➤ Embedded Technology eXtended

- Very inexpensive choice
- Highly integrated and fast
- Extreme low power consumption

## ► Product Overview

The **ETX-mgx** (Embedded Technology eXtended) is a highly integrated and fast PC module with extreme low power consumption. It allows, due to the used AMD® Geode™ GX1 processor, 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. Despite the very little board dimensions, the **ETX-mgx** offers all standard interfaces such as sound, Ethernet, USB and graphic. The AC97 compatible sound chip is supported by most operating systems. For networking purposes the **ETX-mgx** 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 integrated video controller operates CRT monitors as well as LVDS LCD panels. With

up to 4 MByte video RAM, allocated by UMA, resolutions up to 1280x1024 with 8 bpp or 1024x768 with 16 bpp (high color) depth can be displayed.

You're looking for a secure and EMI tolerant boot medium and want to be unlimited in your media capacity choice? A CompactFlash™ socket is already mounted on the **ETX-mgx** and offers you a lot of possibilities. 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. Despite the unbelievable variety of functionality, the **ETX-mgx** is a very inexpensive choice, the cost effectiveness of this device is unbeatable.

With this low-cost module, you are

...always a Jump ahead!

## ► Technical Information

Processor	AMD® Geode™ GX1 up to 300 MHz
DRAM	1 SO-DIMM socket, max. 256 MByte SDRAM
Cache	16 kByte 1 <sup>st</sup> Level
Bootable Flash	CompactFlash™ socket on board, optional chipDISK on board
Sound	AC97 compatible, 16 bit Stereo full duplex, Line In and Line Out Stereo, Microphone In Mono, 3D audio effect processor
Video Controller	CS5530 up to 4 MByte, Video RAM (UMA), simultaneous and independant operation of LCD and CRT monitor, 2D Acceleration
Resolutions CRT and LCD	XGA 1024 x 768 with 16 Bit or SXGA 1280 x 1024 with 8 Bit
LCD Panel Support	Single Channel LVDS 110 MHz
Serial Interfaces	2x TTL (16550 compatible)

Parallel Port	shared with Floppy
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	typ. 5W @ 5V
Temperature (*)	operation: 0° to 60°C, storage: -10° to 85°C
Humidity	operation: 10% to 90%, storage: 5% to 95% (non condensing)

(\*) see manual for details

## ► Ordering Information

Article	Part.-No.	Description
ETX-mgx-00	18003-0000-20-0	200 MHz, with graphic, no sound, no Ethernet and with LVDS
ETX-mgx-AL	18003-0000-26-1	266 MHz, with graphic, sound, Ethernet and LVDS
ETX-mgx-Ald	18003-0000-26-2	266 MHz, with graphic, sound, Ethernet and digital interface
ETX-mgx-300	18003-0000-30-1	300 MHz, with graphic, sound, Ethernet and LVDS
ETXeval	18010-0000-00-0	ATX Baseboard for ETX modules
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

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