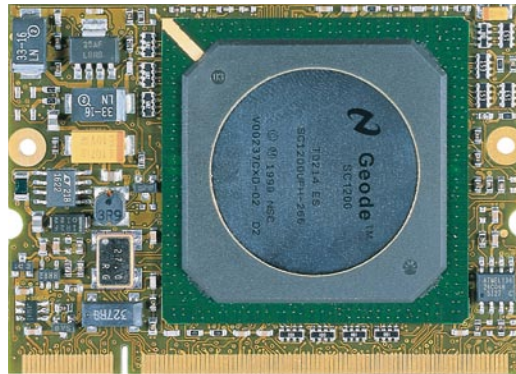


➤ X-board<861>



original size

X-board
Reduced to the maX

- The most cost efficient multimedia-ready board in it's class
- More compact & cost efficient for embedded PC Systems
- Full PC functionality at business card size
- Low power design - no cooling needed

Product Overview

The X-board<861> module has what it takes. Reduced to the maX - Based on the National Semiconductor® Geode™ SC1200 Processor it is the most compact embedded PC possible. Designed for low power consumption from the beginning the X-board<861> module does not require a cooling device at all. Despite the compact size of a business card it offers all modern interfaces the applications of tomorrow need such as integrated Graphics, Ethernet, USB and audio. With up to 128 Mbyte of DRAM and up to 128 Flash storage media on board, the X-board<861> is ready for all applications with support for all major operating systems. Ready for networking the X-board is equipped with a 10/100Mbit Ethernet port for easy Internet/Intranet access. With 3 USB ports and 2 serial ports all communication devices can be connect to the X-board without trouble, many devices support USB as standard interfaces today. The integrated video controller supports CRT analog output, LCD digital output and an TV-output with NTSC and PAL support.

CRT and LCD resolutions up to 1280x1024 with 8bpp or 1024x768 with 16bpp color depth can be displayed. AC97, the digital audio interface is supported on all X-boards to support an external codec chip. Bootable on-board Flash storage goes up to 128 Mbyte in space and is fully IDE compatible. Not only is Flash media very robust against shock and vibration, it is also EMI tolerant compared to a harddrive. For further expansion a single channel IDE port with Ultra33 DMA capabilities is available. For expansion to external hardware the PCI and LPC bus are supported. The LPC bus is the successor of the outdated ISA bus. LPC is a standard bus on todays motherboards and is widely supported by I/O-chip vendors. To adopt an ISA "glueologic" to LPC does not take much effort.

Despite the compact size with the rich variety of functionality, the X-board<861> is the most cost efficient multimedia-ready board in it's class.

X-board™ - Reduced to the maX

Technical Information

Processor	AMD® Geode™ SC1200 @ 266 MHz
DRAM	32/64/128 Mbyte SDRAM on board
Cache	16 kByte 1 st Level
Bootable Flash Harddrive	32/64/128 Mbyte on board
Sound	AC97 interface (digital link), AMC97 version 2.0 Compliant
Video Controller	Up to 4MByte Video RAM (UMA), simultaneous operation of LCD and CRT Monitor
Resolutions CRT and LCD	XGA 1024x768 with 16 Bit (LCD) or SXGA 1240x1024 with 8 Bit (CRT)
TV out	NTSC and PAL resolutions, built in scaler, three line flicker filter
LCD Support	18 Bit digital interface

Serial Interfaces	2x TTL (16550 compatible)
USB	3x USB 1.1 ports OHCI
Ethernet	10/100Base-T Twisted Pair Intel 82551 controller
Harddisk	1x EIDE interface UDMA33 capable
Dimensions	68 x 49 x 8 mm (2,6 x 1,9 x 0,3")
Low Power Consumption	typ. 3W @ 3.3V (estimated)
Temperature (*)	operation: 0° to 62°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
X-board<861>	28011-6400-26-0	266 Mhz CPU, with 64 MByte DRAM, no Flash
X-board<861>	28011-3232-26-0	266 Mhz CPU, with 32 MByte DRAM, 32MByte Flash
X-board<861>	28011-2828-26-0	266 Mhz CPU, with 128 MByte DRAM, 128MByte Flash
X-board-eval x86	28010-0000-00-0	Evaluation Baseboard for X-board<86x> series

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