➤ X-board®<GP8>

Reduced to the maX

original size

➤ The most cost-efficient multimedia ready board in it´s class
➤ With Intel® Xscale® 80219 general purpose Processor
➤ More compact & cost efficient for embedded PC Systems
➤ All advantages of XScale® architectures at business card size
➤ Low power design - no cooling needed

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➤ Product Overview

The X-board®<GP8> module has what it takes. Reduced to the maX - Based on the Intel® 80219 Xscale® Application Processor it is the most compact embedded solution possible. Designed for low power consumption from the beginning the X-board®<GP8> 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 (LCD), Ethernet, USB 2.0 and audio. With up to 128 Mbyte of DDR RAM and up to 32 Mbyte Flash storage media on board, the X-board®<GP8> is ready for all applications with support for operating systems like WinCE, Linux, VxWorks or QNX. Ready for networking the X-board® is equipped with a 10/100Mbit Ethernet port for easy Internet/Intranet access. With USB 2.0 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 and CRT output controller supports LCD digital output. AC97, the digital audio interface is supported on all X-board®s to support an external Codec chip. Not only is Flash media very robust against shock and vibration, it is also EMI tolerant compared to a hard drive. For further expansion a single channel IDE port is available. Despite the compact size with the rich variety of functionality, the X-board®<GP8> is the most cost-efficient multimedia-ready board in it's class.
X-board® - Reduced to the maX

➤ Technical Information

Processor	
	Intel® XScale™ 80219 @ 400/600 MHz
Chipset	
	Silicon Motion SM501
USB	
	2x USB 2.0 ports (Host), 1x USB 2.0 port (Client)
Memory	
	64 MB or 128 MB DDR RAM
Flash	
	32 MB on board, optional 16 MB (without built in bootloader)
Video Memory	
	8 MB soldered SDRAM
Sound	
	AC97 controller (uses 8051 µController)
CRT and LCD resolution	
	CRT up to SXGA 1280x1024 and LCD up to 1024x768
Serial Interfaces	
	2x TTL

Other Features	
	16 GPIO´s or Video Capture Port (Zoom Video Port)
	RTC, Watchdog, JTAG interface for easy debugging, 8051 µController
Ethernet	
	10/100Base-T Davicom controller
Harddisk	
	1x IDE interface
Dimensions	
	68 x 49 mm (2,6 x 1,9")
Low Power Consumption	
	Typ. 4 W @ 3.3V (estimated)
Temperature (*)	
	operation: 0° to 70°C, storage: -25° to 85 °C
Humidity	
	operation: 10% to 90%, storage: 5% to 95% (non condensing)

(*) Ask about wider temperature ranges

➤ Ordering Information

Article	Part.-No.	Description
X-board®<GP8>	28023-6432-40-0	Intel® XScale™ 80219 with 400MHz, 64MB SDRAM, 32MB Flash, 8MB Video Memory
X-board®<GP8>	28023-2832-60-0	Intel® XScale™ 80219 with 600MHz, 128MB SDRAM, 32MB Flash, 8 MB Video Memory
X-board®-eval<GP8>	28010-0000-00-4	Evaluation Baseboard for X-board® with <GP8>

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