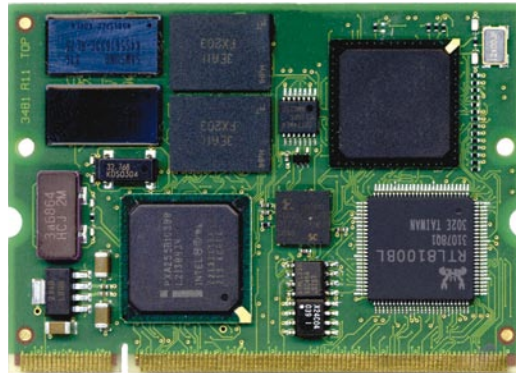


➤ **X-board[®] <PXA>**

Reduced to the maX



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
- All advantages of X-Scale architectures at business card size
- Low power design - no cooling needed

► Product Overview

The X-board® <PXA> module has what it takes. Reduced to the maX - Based on the Intel® PXA255 Application Processor it is the most compact embedded solution possible. Designed for low power consumption from the beginning the X-board® <PXA> 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 and audio. With up to 64 Mbyte of DRAM and up to 32 Mbyte Flash storage media on board, the X-board® <PXA> is ready for all applications with support for operating systems like WinCE, Linux, WxWorks or QNX. 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 connected to the X-board without trouble, many devices support USB as standard interfaces

today. The integrated video controller supports LCD digital output. AC97, the digital audio interface is supported on all X-boards® to support an external Codec chip. On-board Flash storage with build-in bootloader goes up to 64 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 hard drive. For further expansion a single channel IDE port 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 The LPC bus is the successor of the outdated ISA bus.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 today's motherboards and is widely supported by I/O-chip vendors. To adopt an ISA "glue-logic" to LPC does not take much effort. Despite the compact size with the rich variety of functionality, the X-board® <PXA> is the most cost-efficient multimedia-ready board in its class.

X-board® - Reduced to the maX

► Technical Information

Processor	Intel® XScale™ PXA255 @ 200/400 MHz
DRAM	32/64 Mbyte on board
USB	3x USB 1.1 ports OHCI (2 master and 1 client interface)
Flash	16/32 Mbyte on board (with built in bootloader)
Sound	AC97 interface version 2.0 Compliant
LCD	LCD output for various types like passive (DSTN) and active (TFT) displays
LCD resolutions	800x600 Pixel 16 Bit/pixel
Serial Interfaces	2 TTL (high speed COM's one with Bluetooth support)

Other Features	several GPIO's (GPIO pins shared with IrDA, SSP and 3 rd COM), MultiMediaCard (MMC) interface, JTAG interface for easy debugging
Ethernet	10/100Base-T Realtek RTL8100BL controller
Other Features	Multimedia Card Interface Additional GPIO ports
Harddisk	1x IDE interface
Dimensions	68 x 49 x 8 mm (2,6 x 1,9 x 0,3")
Low Power Consumption	Typ. 1,5 W @ 3.3V (estimated)
Temperature (*)	operating: 0° to 70 °C, non operating: -10° to +85 °C
Humidity	operating: 10% to 90%, non operating: 5% to 95% (non condensing)

(*) see manual for details

► Ordering Information

Article	Part.-No.	Description
X-board® <PXA>	28021-3216-40-0	Intel PXA255 400MHz, 32MB SDRAM, 16MB Flash
X-board® <PXA>	28021-6432-40-0	Intel PXA255 400MHz, 64MB SDRAM, 32MB Flash
X-board® Eval <PXA>	28010-0000-00-1	Evaluation Baseboard for X-board-PXA
X-board® <PXA> miniKit	28010-0000-20-1	X-board® <PXA> miniKit including miniBaseboard, PXA Module, display & touch
X-board® <PXA> SK	28010-0000-00-3	Complete Starterkit including X-board® <PXA> (64MB SDRAM, 32MB Flash) and all hard-/ software
X-board® Eval Board	28010-0000-10-2	Universal X-board® Evaluation Board for all X-boards® (x86 & RISC)

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