PCM-7221-OKOCE1E OS-ready XScale® PXA270 + Windows® CE 5.0 Evaluation Kit



Features

- The kit is designed for potential DTOS customer
- Xscale® PXA270 CPU w/ Microsoft Windows® CE 5.0 Evaluation kit
- 5.6" TFT LCD w/ T/S
- Rich I/O I/F: LAN, USB, RS-232, RS-485, hotkey, DIO, audio, CF, SD
- Complete S/W support package with SDK for easy application development
- Supports Adobe® Flash® Player 7.0 & Java Virtual Machine by project base







Introduction

Evaluation kit based on XScale/Windows CE technology makes DTOS projects easy, simple and risk-free

The PCM-7221 evaluation kit integrates certified functional peripherals using Windows® CE 5.0 for functional and risk-free project development and implementation. The evaluation kit includes LCD, T/S, power adaptor, testing fixture, related cables and software support CD.

Testing Kit including H/W testing tools, S/W testing utility and documentation

- H/W testing tools: RS-232 loop-back testing tool, null MODEM cable, JTAG cable, and expansion connector cables.
- S/W testing utility: Advantech-developed a testing utility for system function and I/O performance tests. The test process is implemented through the S/W testing utility and H/W
- Documentation: Advantech RISC PXA270 Platform Testing Method. This explains how to implement a test process.

Software Development Tools

A complete package of software development tools is provided for customers to evaluate our Design-in Kit.

- SDK: for customer target application development
- · Reference Image: for the selected model of Design-in Kit
- Upgrade Utility: for upgrading the boot logo, image & bootloader
- Platform Setting: for system information check, T/S calibration, display control, watchdog configuration, DIO configuration, and registry saving

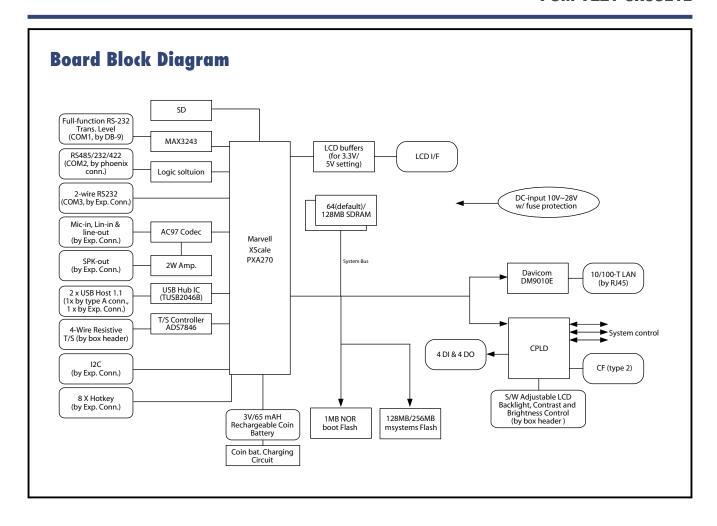
Design-in Zone Membership

Advantech has established a dedicated web portal called Design-in Zone to assist customer development by providing efficient support. See http://risc-designin.advantech.com.tw for more details. The design-in zone enables customers to get up-to-date technical support documentation.

Specification s/w		 Power Management 	Normal & Idle mode - Idle mode: turn off the LCD backlight only. Wake up by event trigger (T/S, USB mouse)
• 0.S.	Windows CE 5.0 English professional ver.	Reset	S/W reset
 GUI Firmware 	Adobe Flash Player 7.0 & Java Virtual Machine by project base	1/0	
Kernel CPU SDRAM Flash Graphic Chip RTC Watchdog	Marvell® PXA270 312 MHz (520 MHz is optional) 64 MB 128 MB (0 MB is optional; the system can boot from a CF or SD memory card) PXA270 internal 18-bit LCD controller Yes (backup by 65 mAh rechargeable coin battery) PXA270 internal	- COM - LAN - USB - SD/MMC - CF	COM1: FF transceiver level RS-232 (TTL is optional) by DB-9 conn.COM2: RS-485 (default)/422/232, S/W configurable by phoenix conn.COM3: 2-wire transceiver level RS-232 (TTL is optional) by expansion conn. 1 x 10/100Base-T (Davicom DM9010) by RJ45 2 x USB 1.1 host ports. USB#1 by type A, USB#2 by expansion conn. 1 x standard slot (supports memory and SDIO mode) 1 x type II slot (supports memory and IO mode)
- JTAG	Yes (pin header)	• DI/DO	4 x TTL-level DI & 4 x TTL level DO by expansion

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Hotkey 8 x hotkey I/Fs (can be configured as GPIO) by expansion conn.

 I²C Yes (by expansion connector) SPI Reserved (by expansion connector)

 Expansion conn. 50-pin box header with the following functions: COM3, hotkey, DIO, Audio, I2C, SPI, USB host & power pin

Multimedia

LCD 5.6" TFT 320 x 234 500 nits (Dataimage FG050605DNCWAGZ1)

 T/S 5.6" 4-wire resistive type

Inverter Supports LCD on/off and brightness control by S/W setting

Speaker

2 x 2 watt speakers Audio Line-in, Line-out & Mic-in by expansion conn.

Power

 Power Adaptor 100 ~ 240 V AC input w/ 19 V DC-output

 SBC DC-input 10 V ~ 28 V

Coin Battery Rechargeable li-ion 3 V 65 mAh coin-battery for RTC

Power Switch Slide type

Mechanical

383 mm x 210 mm x 88 mm Chassis size SBC size 102 mm x 136 mm

Packing List

PCM-7221 Evaluation

Testing Tool

Support CD

License

Includes PCM-7221 SBC, 5.6" 320 x 234 TFT LCD, 4-wire T/S, inverter, AC/DC power adaptor, 2 x 2 watt

speakers, plastic chassis & related cables Includes JTAG cable, RS-232 loop-back fixture, expansion conn. cable, male phoenix conn.

Includes datasheet, user manual, upgrade utility, testing utility, SDK, and design-in zone guide

Microsoft Windows CE end-user license agreement

Ordering Information

Part No.	Description
PCM-7221-0K0CE1E	Evaluation kit for Marvell XScale PXA270 w/Windows CE 5.0, 64 MB SDRAM 128 MB flash, 5.6" 320 x 234 LCD w/ T/S