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**SPECIAL  
EDITION**

## Embedded Solution Alliance Partners Wanted: Attend our Europe Partner Conference to Learn About the Intel StrongARM/Xscale Embedded Solution!

Advantech will be showcasing its RISC-based solutions at the partner conference & workshop in Eindhoven, The Netherlands, from the 19th to the 21st of September.

Advantech would like to invite RISC-based system integrators, Linux solution providers, and embedded

independent software vendors to come to this fair to see the Advantech RISC-based solutions and talk with Advantech people.



The Advantech Alliance Partner program aims at forming strong business teams to provide total RISC-based application solutions. Advantech would like to team up with various software design houses and application developers all over the world. In the business teams, Advantech provides solid, RISC-based platform solutions and service packages while the alliance partners concentrate on their core competence-- application solution development.

Contact [Barry.Liaw@advantech.com.tw](mailto:Barry.Liaw@advantech.com.tw) or [joe.cheng@advantech.com.tw](mailto:joe.cheng@advantech.com.tw) for conference registration!

## Intel StrongARM/Xscale Evaluation Kit Available Now

### Recent News

#### Prime News

- [Advantech Introduces New SOM-4451](#)

#### Announcement

- [PCM-5820 Now Supports Windows CE .NET](#)
- [New Heatsink for SOM-4450 Series](#)

#### Product Update

- [PCM-9572F-L8A1 Phase out](#)

#### RECENT ISSUES

- [July 15, 2002](#)
- [July 1, 2002](#)
- [June 1, 2002](#)
- [May 15, 2002](#)
- [May 1, 2002](#)

## Intel StrongARM/Xscale Evaluation Kit Available Now

Advantech is proud to announce its ARM-based evaluation kits are available now. The Advantech evaluation kits not only accelerate developers' application development cycles, but also help them evaluate the feasibility of their projects and reduce the time to trial runs.

Various ARM-based processors, including the popular Intel StrongARM and Xscale, and optional embedded operating systems, including Windows CE .NET and Embedded Linux, are now ready to fulfill your needs.

Click to see details of the [StrongARM/Xscale Evaluation Kit](#)



## Advantech RISC-based Solutions Website Coming Soon!

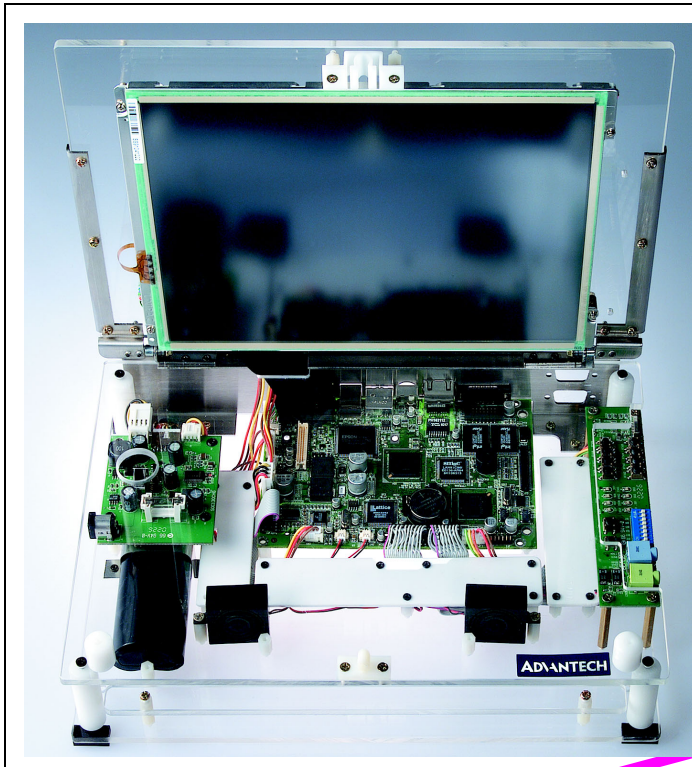
The new Advantech RISC embedded solution website is going to be launched in the middle of September. Check it out to learn more about Advantech RISC-based solutions.

Problems, comments, suggestions? Please contact the [editor](#)

<a href="#">EPC World</a>	<a href="#">Advantech Home</a>	<a href="#">EPC Homepage</a>	<a href="#">News Archive</a>	<a href="#">Contact Us</a>
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# PCM-7130

## Multitasking, Ready to Run Evaluation Kit



**Intel® StrongArm\* CPU**

**10.4" TFT LCD Display**

**I/O Board with Built-in  
Windows CE Utility for  
easy GPIO, DIO and audio  
verification**

**Battery pack and onboard  
charger**

**Advantech off-the-shelf SBC**

### Introduction

Being the first RISC-based single board computer from Advantech, the PCM-7130 is a full-function embedded solution providing crucial features such as LCD/touchscreen support, a battery interface, GPIO/DIO and ordinary I/O ports such as serial, USB, LAN and CRT. Windows CE.NET or Linux is built on this board to serve as an integrated solution.

The PCM-7130 Evaluation Kit gives developers a platform for this purpose. With the abundant features of the PCM-7130 SBC, this evaluation kit effectively combines peripherals together with the PCM-7130, for a better testing platform. A 10.4" TFT LCD display, resistive touchscreen, battery pack, speakers, I/O board and a battery charging board make the intrinsic PCM-7130 functions available to developers. The PCM-7130 users can get one or several units of this PCM-7130 Evaluation Kit before beginning a project. With this evaluation kit; developers and users only need to focus on transplanting their Windows CE application programs.

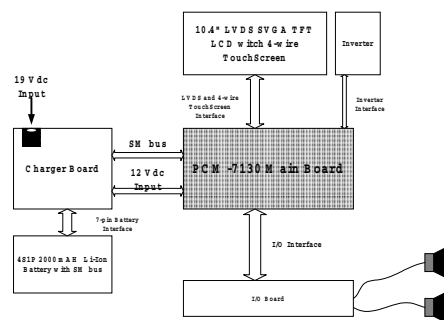
### Purpose

- Application developer platform kit
- Project evaluation platform kit

- Pre-marketing trial kit

### Features

- PCM-7130-1200 as the kernel
- 10.4" TFT LCD display and resistive touchscreen are bundled
- I/O board and built-in Windows CE utility for easy verification on GPIO, DIO and
- audio
- A battery pack and a charger board are bundled for mobile platform evaluation
- 100 pin external bus for user modules



Your ePlatform Partner

**ADVANTECH**

# PCM-7130 Evaluation Kit

## Technical Specifications

### System Kernel (PCM-7130-12A1)

- **CPU:** Intel®StrongARM\* SA-1110, 206 MHz
- **Companion chip:** Intel®StrongARM\* SA-1111
- **VGA controller:** Epson S1D13806 VGA controller
- **Flash memory\*:** 32 MB flash memory on board
- **Memory:** 64 MB SDRAM on board
- **Watchdog timer:** Dallas DS1670
- **Audio:** AC'97 stereo audio interface and two speakers
- **Battery:** One battery pack with 2000 mAH capacity
- **Power input:** 12 V<sub>DC</sub>
- **SSD:** 1 type-II CompactFlash card slot
- **PCMCIA:** 1 type-II PCMCIA slot
- **Ethernet:** 1 RJ-45 10Base-T port
- **GPIO:** 8 GPIO
- **DIO:** 8 digital inputs, 8 digital outputs
- **IrDA:** 1 IrDA interface
- **PS/2 port:** 1 PS/2 port for keyboard/mouse
- **TV-out:** supports both NTSC and PAL output

### I/O Board

- **IrDA:** 1 FIR IrDA transceiver
- **GPIO:** 8 GPIO are mapped to 8 push-buttons as hotkeys; the defaults are:
  - GPIO 1: invokes Windows Explorer
  - GPIO 2: invokes Advantech homepage
  - GPIO 3: invokes System Configurator
  - GPIO 4: invokes Windows Media Player
  - GPIO 5: invokes Control Panel
  - GPIO 6: invokes Command Line environment
  - GPIO 7: invokes touchscreen calibration
  - GPIO 8: invokes ActiveSync
- **DI:** 8 DI are connected to a DIP switch which can verify DI functions through the bundled Windows CE utility (System Configurator) or user-defined programs
- **DO:** 8 DO are connected to 8 LED. The DO functions can be verified by the bundled operation Windows CE utility (System Configurator) or user-defined programs
- **RESET:** reset push-button
- **SLEEP ON/OFF:** sleep on/off push-button
- **Audio:** line-out and MIC-in jacks

### Charger Board

- **Power input:** Recommend 19 V<sub>DC</sub> Power Jack, power output to mainboard (PCM-7130):12 V<sub>DC</sub>
- **Power switch:** Turn on/off the power supply from battery or DC source
- **Battery:** 4S1P 2000 mAH Li-Ion Battery with SM bus

### Software utility-System Configurator(bundled with Windows CE)

The System Configurator provides information and functions including:

- **General information:** memory status and software version number

- **Touchscreen calibration**
- **Display control:** backlight on/off, brightness and contrast-tuning, resolution setting
- **Watchdog timer:** Watchdog timer setting
- **Hotkey:** Defines the 8 GPIO
- **DIO:** Verifies the DIO functions
- **Miscellaneous:** Other settings

## Ordering Information

- **PCM-7130-1200:**  
3.5" StrongARM SBC
- **PCM-7130-1200CE:**  
3.5" StrongARM SBC supporting LCD, touchscreen, audio, IrDA and Ethernet with Windows CE.NET English on board
- **PCM-7130-1100LX:**  
3.5" StrongARM SBC with LCD, touchscreen, audio, IrDA and Ethernet with Linux English on board
- **PCM-7130-0K0CE:**  
PCM-7130-0K0CE evaluation kit with 10.4" TFT LCD and Windows CE.NET English on board
- **PCM-7130-0K0LX:**  
PCM-7130-0K0LX evaluation kit with 10.4" TFT LCD and Linux English on board

## Packing List

- Support CD
- Windows CE end user license agreement
- USB client ActiveSync cable
- Y-shaped adapter for PS/2 mouse and keyboard
- Audio cable
- RS-232 and RS-485 combo cable

