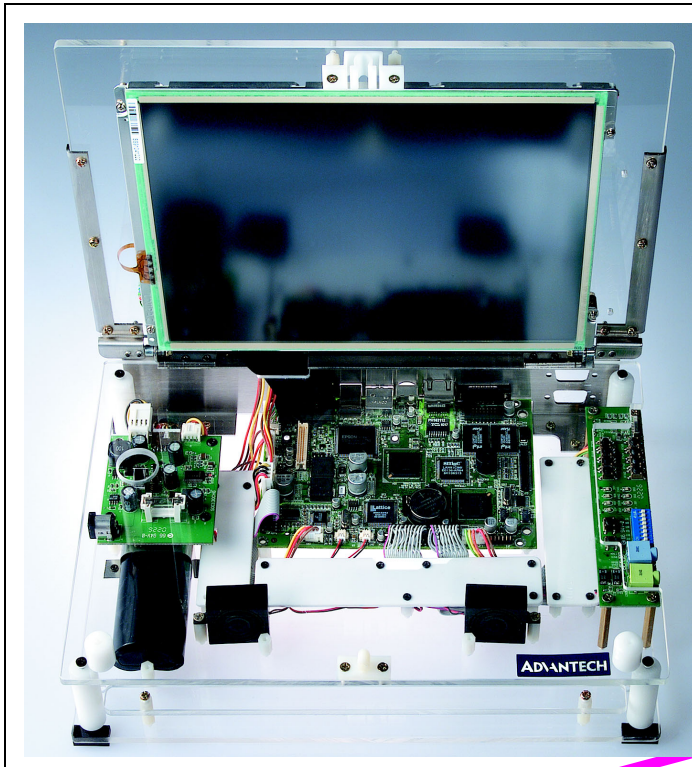


PCM-7130

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.

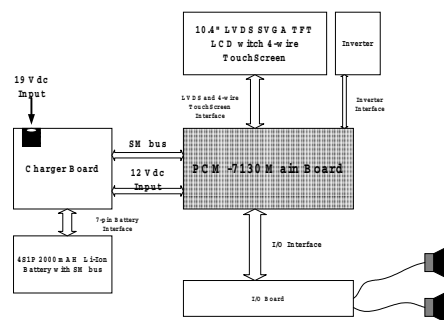
Purpose

- 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_{DC}
- **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_{DC} Power Jack, power output to mainboard (PCM-7130):12 V_{DC}
- **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

