

PCM-7320 Evaluation Kit

RISC 2.5" Samsung S3C2410 Multitasking Ready-to-Run Platform



Features

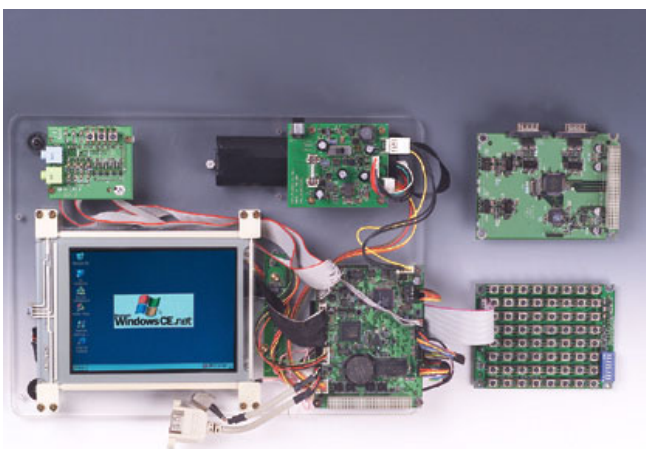
- Embedded PCM-7320S-330CE main board
- PCM-7320S-330CE/LX as the kernel
- 5.7" STN QVGA LCD display with touchscreen
- Integrated 4-cell Battery pack and charger system
- 16 GPIO for 8x8 matrix keypad bundled with selection utility
- 4-COM AMI-120 module is bundle for function expansion
- Complete SW support with SDK for application development
- Binary format BSP (Board Support Package) optional on a project basis.

Introduction

Based on the PCM-7320 platform, the PCM-7320 Platform Evaluation kit integrates a package that provides customers an effortless system platform for project evaluation, application development and solution feasibility testing without long lead-time waiting and heavy initial expense and investment.

ARM9-based kit make everything easy, simple, and risk-free

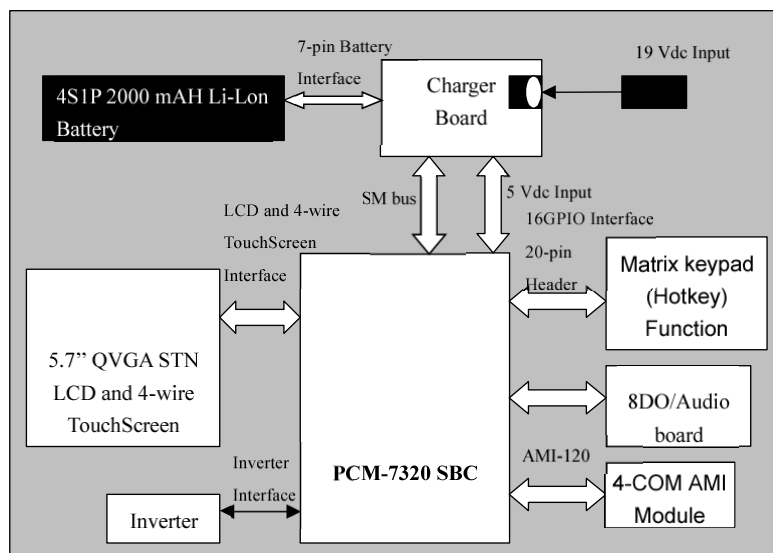
The PCM-7320 Evaluation kit has already integrated certified functional peripherals in a battery-powered pack under both Windows[®]CE .NET or Embedded Linux to allow functional and risk-free project development and implementation. The Evaluation kit also contains a 2000 mAH (4S1P) Li-Ion battery pack, one 4-COM AMI-120 module and one 8x8 Matrix Keypad, along with all necessary cables, power core and Advantech Software Support CD. Bundled parts/components include the fully tested and certified PCM-7320 main board.



Specifications

System M/B kernel	
Main board kernel	PCM-7320S-330CE/LX
CPU- Samsung ARM9 S3C2410	200 MHz
System Memory	64 MB SDRAM on board
Flash Memory	64 MB NAND flash on board (CE/LX solution pre-installed)
Display module	
LCD	Model: NAN-YA LCBFBTB61M23
Touchscreen	4-wire resistant Touchscreen
Charge board	
Battery pack	4S1P Li-Ion battery cells, (2000 mAH,3.8v) through SM bus
Power Input	Recommend 19VDC POWER jack
Power Switch	Turn on/off the power supply from Battery or DC source
Matrix key pad (8x8)	Programmed by application as hot keys or character key, the key is defined by Advantech, but can be modified by users.
Software utility for setting and configuration	1) Define keys of 8x8 Matrix keys
AMI-120 solution module	
	4-COM Module (AMI-4COM-01) for function expansion

Block Diagram



**PCM-7320
Evaluation Kit**

Packing List

Advantech Software Support CD	Selected Windows® CE .NET or Embedded Linux models
License agreement	Windows® CE .NET end user License agreement (for Windows® CE .NET model only)
Stylus:	Plastic stylus for touchscreen input
Cables kit	USB Client ActiveSync cable
(refer to p/n PCM-7320-CK001 for Windows® CE .NET or PCM-7320-CK002 for Linux if purchased along)	1 x JTAG cable (Linux model only) 1 x Null model cable(Linux model only) 2 x RS-232 cable 1 x RS-485/232 cable 1 x Buzzer cable 1 x Ethernet cable 1 x USB Host/Client cable

Software Utility bundle with WinCE solution

The System Utility bundled in Advantech Windows®CE .NET solution pack includes:

- **System Configurator**
 - General Information: memory status and software version information
 - Touch-screen Calibration
 - Display Control: on/off, brightness and contrast tuning
 - WatchDog: watchDog timer setting.
 - DO verification or matrix keys(hot key) setting
 - miscellaneous: setting for registry, Activesync,etc.

Linux solution bundle package:

The Linux support packages including the following components:

- **Bootloader:** initiate hardware platform and load Linux system kernel
- **Kernel:** system kernel code (like scheduler, I/O control, DMA, Interrupt, etc)
- **Ramdisk:** file system
- **Utility:** gcc (compiler)
- **GUI (Graphic User Interface) SDK:** iCava SDK for implement interface

Ordering Information

- ❑ **PCM-7320S-330CE:** Samsung ARM9 200MHZ, 64MB SDRAM, 64MB flash onboard, with CF slot and Windows®CE .Net solution integrated
- ❑ **PCM-7320S-330LX:** Samsung ARM9 200MHZ, 64MB SDRAM, 64MB flash onboard, with CF slot and Linux solution integrated
- ❑ **PCM-7320C-330CE:** Samsung ARM9 200MHZ, 64MB SDRAM, 64MB flash onboard, with Windows®CE .Net solution integrated
- ❑ **PCM-7320C-330LX:** Samsung ARM9 200MHZ, 64MB SDRAM, 64MB flash onboard, with Linux solution integrated
- ❑ **PCM-7320-0K0CE:** PCM-7320 Evaluation kit system based on PCM-7320S-330CE
- ❑ **PCM-7320-0K0LX:** PCM-7320 Evaluation kit system based on PCM-7320S-330LX
- ❑ **PCM-7320-CK001(optional):** Cable kit for PCM- 7320 series of Windows®CE .NET
- ❑ **PCM-7320-CK002(optional):** Cable kit for PCM- 7320 series of Linux

Optional Items

Advantech Off-the-Shelf AMI-120 Modules

- ❑ **USB Hub and IDE module:** 4x USB ports (v1.1, 1.5 MB/s) with 44-pin IDE connector module.
- ❑ **Epson LCD controller module:** Epson #13806 LCD controller module with LCD/LVDS/CRT/TV-out interfaces.