

PCM-7320 Evaluation Kit

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



Features

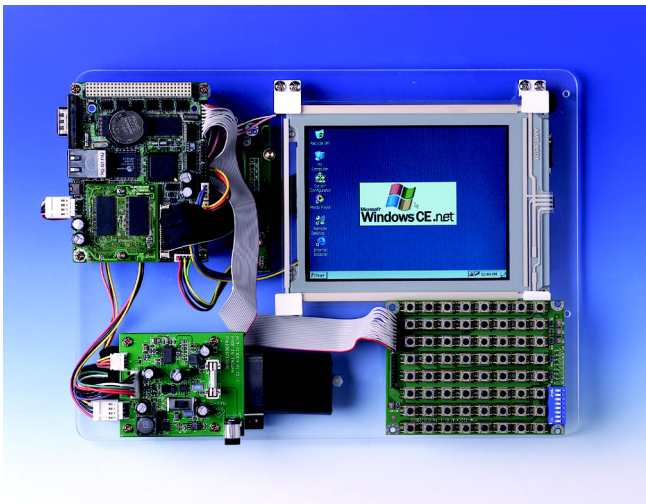
- PCM-7320K-330CE/LX as the kernel
- 5.7" STN QVGA LCD display with Touch Screen are integrated.
- Integrated 4-cell Battery pack and charger system
- 8 x 8 Matrix keypad with D I/O function bundled with selection utility
- 4-COM AMI module is bundle for function expansion
- Complete SW support with SDK for application development
- Binary format BSP (Board Support Package) optional on a project basis.

Introduction

Based on PCM-7320 platform, PCM-7320 Platform Evaluation kit integrates all solution developer needs into 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

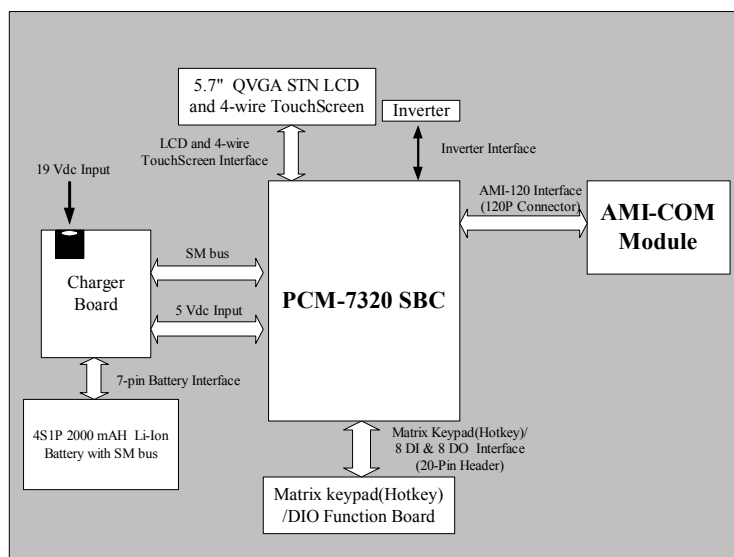
Making project development and implementation functional and risk-free at the starting point of a project, PCM-7320 Evaluation kits have already integrated complete certified functional peripherals in a battery-powered pack under both WinCE.NET or Embedded Linux. Including all necessary cables, power core and Support CDs, the Evaluation kit also contains a 8000 mAH (4S1P) Li-Ion battery pack, one 4-COM AMI-120 module and one Matrix 8x8 keypad integrated with a D/I/O interface. All bundled parts/components including the PCM-7320 main board arrive fully tested and certified in production-ready condition.



Specifications

System M/B kernel	
Main board kernel	PCM-7320K-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
Touch Screen	4-wire resistant Touch screen
Charge board	
Battery pack	4S1P,2000 mAH Li-Ion packs thru SM bus
Power Input	Recommend 19VDC POWER jack
Power Switch	Turn on/off the power supply form Battery or DC source
Matrix Keypad module	
Matrix key pad (8x8)	For WinCE.NET model only Programmed by application as hot key or character key, the key is defined by Advantech, but can be modified by customer in their own defined.
Digital Input/Output (Default setting)	
	8 x DO indicators by LED 8 x DI dip switch for configuration
Software utility for setting and configuration	1) Configure Default setting for Matrix or D I/O 2) 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

AMI solution module	4-COM module (AMI-4COM-01)
SW Support CD	Per models of WinCE.NET or Embedded Linux
License agreement	Windows CE end user License agreement (for WinCE model only)
Cables	USB Client ActiveSync cable JTAG cable (Linux model only) Audio cable 1x RS-232 cable 2x RS-485/232 cable 1 x Buzzer cable 1 x Ethernet cable 1 x USB Host/Client cable Plastic Stylus for Touch Screen input

Software Utility bundle with WinCE solution

System Utility bundled in Advantech WinCE.NET solution pack in PCM-7320 models includes:

- **General information:** memory status and software version information
- **Touch Screen Calibration**
- **Display Control:** backlight on/off, brightness and contrast tuning, resolution setting
- **D I/O:** Digital Input / Out setting and verification
- **Miscellaneous:** other setting for registry, Watch dog, etc
- Matrix D I/O
- Image upgrade utility

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-7320K-330CE/LX:** Samsung ARM9 200MHz, 64MB SDRAM on board, 64MB Flash on board with Win CE/Linux solution integrated
- PCM-7320-0K0CE/LX:** PCM-7320 Evaluation Kit system based on PCM-7320K-330CE/LX
- PCM-7320S-230CE/LX:** Samsung ARM9 200MHz, 64MB SDRAM on board, 32MB Flash on board with Win CE/Linux solution integrated
- PCM-7320M-120CE/LX:** Samsung ARM9 200MHz, 32MB SDRAM on board, 16 MB Flash on board and Win CE/ Linux solution integrated

Remarks:

- Customers can purchase PCM-7320 Models with CF booting in different size of CF card per own requirement.

Optional Items

Advantech Off-the-Shelf AMI-120 Modules

- USB Hub and IDE modules, P/N:** AMI-USB-IDE-01
- Epson LCD controller module, P/N:** AMI-LCD-E-01