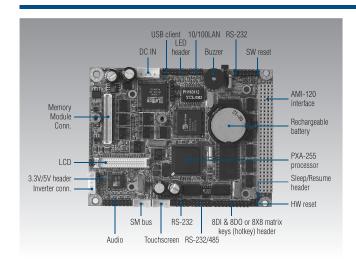
PCM-7220 Series

2.5" OS-ready SBC Intel® XScale® PXA255 processor, Windows® CE .NET/Linux



Features

- Platform integrates with Advantech software solution including Bootloader, device driver, OS kernel and system utility in a pre installed package on either onboard flash or CF card.
- Multiple boot options through the onboard flash, extended memory module, or CF card
- Extended temperature (Advantech Phoenix models) available as optional models
- Full power management for Ultra low power performance (Normal- < 2.5 W/ Suspend < 200 mW)
- AMI-120 interface for guick function expansion.
- SM bus interface for battery powered applications
- Evaluation kit integrating 5.7" STN QVGA panel, touch screen, battery pack, 8DI & 8DO/8x8 Matrix Keypad (hot key) is available for project feasibility evaluation

Introduction

The PCM-7220 series integrates Intel's PXA255 processor and Windows® CE .NET or Embedded Linux solution in a 78 x 104 mm (3" x 4") compact form factor. It is designed to provide customers with a high performance subsystem board based on Intel® XScale™ technology with character of OS-ready, compact, and flexible expansion to meet versatile application needs.

Certified platform functionality offers fast, flexible CTOS (Customize To Order Service)

The PCM-7220 offers customers a fast time to market and flexible reference platform that is fully customizable. All functionality has been completely certified and can be leveraged to customize various hardware specifications and system optimization needs based on customers' request.

Solution platform based on Intel® XScale™ technology

This platform offers rich I/O interfaces and high performance, along with an Intel® PXA255 processor, complete with 32-bit, up to 400 MHz speed SoC engine. It also reserves interfaces for flexible configuration that will exceed expectations for high performance vs. cost.

Applications

- Industrial mobile device platform
- Telematics / Navigator / AVL / DBA
- Touch Panel base terminal

Specifications

Low cost HMI

System Kernel

Boot Loader

OS image storage

Watchdog Timer

CPU

0S

• **SDRAM** 32/64 MB (default) SDRAM on board or upto 128 MB

thru memory module

Display

■ LCD Intel PXA255 processor built- in LCD interface

(TFT/STN VGA\QVGA 16bpp suggested, QVGA setting

default)

T/S 4-wire resistant touch screen

SM bus For smart battery, pin header, I2C bus

• System Back-up Battery Rechargeable Li-ion battery 65 mAH, supports

system

SDRAM and RTC

Supports WinCE.NET4.1/EmbeddedLinux (2.4.19

kernel)

optional)

1 MB AMD Flash ROM for Bootloader

OS Image loaded from external CF at default or

Intel XScale PXA255 400 MHz default (200,300 MHz

optional memory module

PXA255 internal

HT1381, backup by internal backup battery

RTCMemory

• Flash Optional CF card or memory module up to 64MB

I/0s

PCMCIA
RS232(COM1-COM3)
RS485 (COM4)
2x type II PCMCIA slot support I/O & data mode.
3x RS-232 COM Port full 9 pin transceiver level
1x RS-485 COM W/ AFC. (RS-232, 2-pin TTL

configurable)

USB 1x USB Client for ActiveSync
Ethernet Interface DM9000 10/100Base-T.

Digital I/Os 8 DI & 8 DO or 8 x 8 matrix keys, configured by

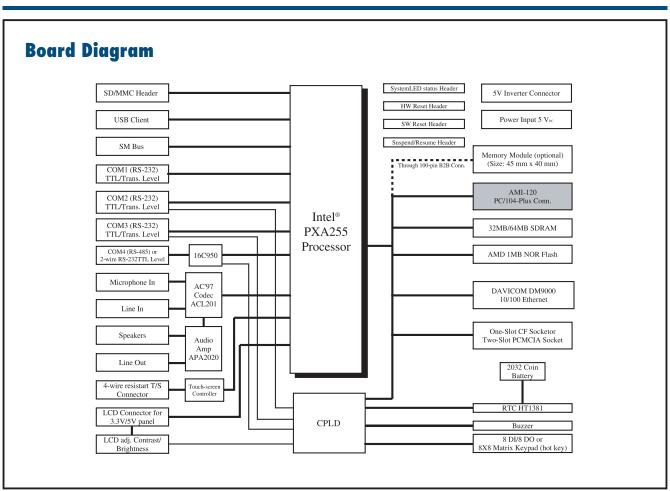
software

Audio AC'97 interface included line-in, line-out, speaker out

and MIC in. Pin header output.

• Input power 5 V DC @ 0.5 A typical in 4- pin header

PCM-7220 Series



Packing List

- Advantech Software Support CD: Selected Windows® CE .NET or Linux
- Windows® CE .NET end user license agreement: Windows® CE .NET model only
- Cable kit (optional)

Ordering Information

■ PCM-7220S-030CE Intel® PXA255 processor at 400 MHz, 64 MB SDRAM

onboard (Memory Module interface reserved), with

Windows® CE .NET solution integrated

■ PCM-7220S-230CE Intel® PXA255 processor at 400 MHz, 64MB SDRAM onboard, 32 MB flash on memory module, with

Windows® CE .NET solution integrated

PCM-7220-CK001 Cables kit for PCM-7220 series of Windows® CE .NET (optional)

Remarks:

- All Linux OS package is ready for evaluation reference by Project request.
- The size of flash and system memory can be configured per customer
- Different system specification based on PCM-7220 platform can be customized in project base through Advantech customization service.







