EM9160 Specifications V3.0

CPU Unit

- 200MHz ATMEL AT91SAM9260 (ARM926 based)

- 32MB SDRAM，32MB NAND FLASH。

- WINDOWS CE5.0 Pre-installed

- Supporting eVC Development of Applications

- MicroSD Memory Card Interface Ready

- USB Mass Storage Interface Ready

- RTC Enabled (external battery required)

Interfaces

- 1 Ethernet Port

- 6 Serial Ports

  COM2, with full modem lines (LVTTL)

  COM3, Standard RS232

  COM4, with RTS#/CTS# optional

  COM5, multiplex pin with GPIO0 – GPIO1

  COM6, multiplex pin with GPIO2 – GPIO3

  COM7, multiplex pin with GPIO4 – GPIO5

- 2 USB Host Ports

- 1 USB Device Port, Active Sync Ready

Display and Keypad

- Specified LCD Interface for low cost LCD module

- Supporting LCD resolution 320x240, 240x128, 128x64

- GPIO based matrix keypad driver

Expand BUS

- Simplified ISA Bus with Chip Selection (CS0#, CS1#)

- 8-bit Data Bus (SD0 –SD7), 32 Bytes Address Access (SA0 – SA4)

- 500ns Bus Cycle, 3.3V Bus Signal Level(LVTTL)

GPIO and Local Controls

- 8 GPIO, direction, open drain configurable independently

- 1 I^2C interface, max transfer rate 1Mbps

- 1 full-duplex SPI interface, max transfer rate 10Mbps

- 3 PWM output

Power Supply and Mechanical Parameters

- Single 5V±5% / 150mA

- Operation Temperature: -40℃ – 80℃ (Industrial)

- Piggyback Board Style with Size of 74mmx53mm

- 2 Rugged 36-Pin IDC for Communication Ports and ISA Bus

Basic Software Environment

- Windows CE Pre-installed

- EM9160 SDK Package for Application Development with eVC

- Typical Application Examples(Source Code Included)

- Both Ethernet and USB Configurable as Debug Port

- Supporting Microsoft's Remote Tools for Embedded Platform