# EM9161 Specifications V1.0

### CPU Unit

- 200MHz ATMEL AT91SAM9261S (ARM926EJ-S based)

- 64MB 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

- 4 Serial Ports

  COM2, with full modem lines (LVTTL)

  COM3, Standard RS232

  COM4, RXD/TXD, TTL

  COM5, RXD/TXD, TTL , multiplex pin with GPIO0 – GPIO1

- 2 USB Host Ports

- 1 USB Device Port,  Active Sync Ready

- 1 CAN (Optional)

### Display and Human Inputs

- TFT Color LCD Interface(TTL signal level)

- Typical Format: 640x480, 320x240

- 4-wire Touch Screen Enable

- 4x4 Matrix Keypad Available

- USB Enable Mouse, Keyboard

**DIO**

- 16 general purpose I/O GPIO0 – GPIO15, direction, open drain configurable independently

- 8 digital output DOUT0 – DOUT7, low level at power-on

- 8 digital input DIN0 – DIN7

**Expand BUS**

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

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

- 360ns Bus Cycle, 3.3V Bus Signal Level(LVTTL)

**Power Supply and Mechanical Parameters**

- Single 5V±5% / 280mA

- Operation Temperature: -10℃ – 60℃, -40℃ – 80℃ (Optional)

- 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

- EM9161 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