

## Hardware Specifications

### Processor

- 32 bit RISC architecture ARM926EJ CPU core
- 64-way associative cache with I-cache (16KB) and D-cache (16KB)
- 400MHz CPU clock

### OS Memory

- WINCE 5.0 with 2GB NAND Flash memory

### System Memory

- 16-bit 64MB / 133MHz DDRII memory

### SD / MMCCard Socket

- Support SD / MMC host interface
- Compatible with SD memory protocol and SD media card protocol

### External Setting Connector

- Support JTAG for debug and USB (device) for system setting

### Serial Ports

- Support 2 x 2-wired DMA-based operation UART
- One UART fully compatible 16C550

### USB Ports

- Support 1 x USB host compatible with USB 1.1

### Audio Codec

- Support DSP based processing stereo codec with SNR 102dB DAC / differential microphone input
- Software programmable volume control and mute control
- Single channels 2 watts speaker output

### GPIO

- Support 4 photo-couple input and 4 photo-couple output

### Key Pads

- Support 8 interrupted based capacitive touch sensor keys with LED backlight

### Display

- Support 16M color TFT at 18bpp mode with resolution 800 x 480 or equivalence
- LED backlight supported

### GSM Module

- Siemens Tri-Band wireless module supporting 900/1800/1900MHz default (or 850 / 1800 / 1900MHz)
- Support Voice / SMS / CS Date / GPRS mode
- Built-in TCP / IP stack speed design of M2M application
- Support passive antenna

### GPS Module

- Support GPS module with 16 channels ANTARIS 4 receiver engine (or 50 channels receiver engine) with passive antenna
- Support GGA / RMC / TXT / GLL / GSA / GSV / VTG message  
Sensitivity of tracking -158dBm~-160dBm
- Support active antenna

### Chassis

- Provide ABS 94V0 chassis with 2 x serial ports, 1 x USB device, 1 x USB host, 1 x Power switch

### Power Requirement

- DC9V~DC28V power requirement with short-circuit protection

### Battery Power ( option Top: TFT -20°C - 70°C )

- Support 2200 / 4400mAh polymer battery with low voltage and thermal protection
- Support constant voltage regulation / constant current charging and auto-termination charger

### Operating Temperature

- Industrial: TFT -20°C ~ 85°C    T/P -20°C ~ 60°C  
Car: TFT -30°C ~ 80°C    T/P -30°C ~ 80°C