

## **EMBEDDED HARDWARE**

### **Core Board**

- \* Size: 71.2mm \*50.8mm
- \* Industrial grade 32-bit RISC micro-controller
- \* Mass storage device support
- \* Industrial grade 16C550 Serial Interface
- \* 10/100M Industrial Ethernet interface
- \* USB master and slave interface
- \* Dual CAN2.0 Interface
- \* Monochrome industrial grade LCD screen interface



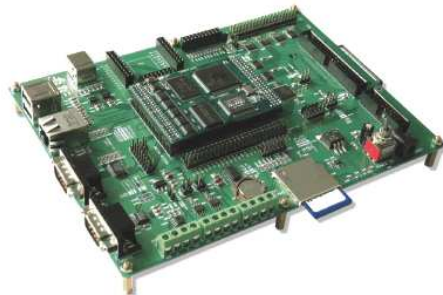
### **ARM7 Development board**

CPU (AT91SAM7X256) 55MHz, SRAM 64KB, FLASH 256KB  
Ethernet (10M/100M): 1  
USB Device: 1, RS-232: 2, CAN: 2  
DataFlash: card slot: 1, Atmel serial DataFlash 16Mbit  
EEPROM (AT24C01), expansion slots, 20Pin JTAG



### **ARM7 Evaluation Board**

Assessment ART6200-B10/N10/F10/U10 such as ARM 7 core board  
240 \* 128 graphic LCD interface  
Ethernet (10M): 1, USB: HOST: 2, DEVICE: 1  
RS-232: 2, RS485: 1, CAN: 2  
SD/MMC interface: 1, IDE port: 1, CF interface: 1  
16 Road, DI, 16 Road, DO, an external high-precision real-time clock  
Temperature and Humidity Sensor Interface System  
One GPIO expansion interface, a peripheral expansion bus device interface PACK  
One TAG-line debugging interface



**Astra Elektronik Sanayi İthalat ve Ticaret Limited Şirketi**

Postane Mahallesi Yalıboynu Caddesi No.50 Tuzla / İstanbul

Tel: +90 216 5740612/13/14/15 Faks: +90 216 5740616

e-mail: [astra@astraelektronik.com](mailto:astra@astraelektronik.com) GPS: N 40°49'10.7" E 29°17'29.2"  
[www.astraelektronik.com](http://www.astraelektronik.com)



## **EMBEDDED HARDWARE**

### **Hardware Features:**

Size: 165mm\*115mm\*20mm

CPU: Intel XScal series PXA270 processor

Operating frequency range: 104MHz~520MHz

Main frequency: 520MHz

Power dissipation: 750mW

SDRAM: 128MB

Solid State Memory

NorFlash: 32MB(Intel StrataFlash Memory)

NandFlash: 256MB(Samsung NandFlash Memory)

CF Card: 256MB~1GB(TruelIDE Mode)

Display System

LCD interface: Support DSTN and TFT LCD with RGB interface  
(Maximum Resolution 800\*600)

VGA interface: Can accessed by an ordinary computer monitor  
(Resolution 800\*600)

Audio System

AC97 audio interface: Phone\*1, Line\*1, MIC\*1

Communication Interface

RS232 serial port: one three-wire serial, baud rate up to 921.6Kbps

Full-function serial: one nine-wire serial, baud rate up to 921.6Kbps

RS485 serial port: one industry standard RS485 interface

USB Host: two (USB2.0), baud rate up to 12Mbps

USB Client: one (USB2.0), baud rate up to 12Mbps

Ethernet: one, industry-on-chip, 10M/100Mbps adaptive

CAN Bus:two(CAN2.0A/B)

Other Device

DC buzzer: one

LED lights: two

RTC backup battery

Independent watchdog timer

General purpose I/O, 8 DI/O

JTAG Debug Interface

Technics Characteristic: 6 layer PCB design, high stability

Operation Temperature: -40°C~85°C



**ARM8020**



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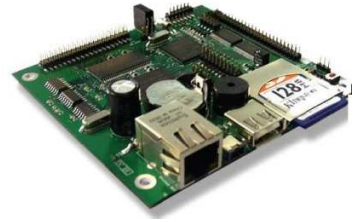
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## **EMBEDDED HARDWARE**

### Standard configuration:

Operation system: WinCE, Linux and other driver programs under two operating system interface  
CPU: SAMSUNG S3C2410 processor  
SDRAM: 64MB  
NAND FLASH: 64MB  
NOR FLASH: 2M  
LCD: Support DSTN and TFT LCD (16/256/4K/64K color)  
Touch screen: 4-wire Resistive Touch Screen  
USB HOST: support USB keyboard, mouse, U disk and USB camera  
USB DEVICE: support the data communications between PC and motherboard  
SD Card: support SD/MMC Card, capacity up to 2G  
Serial: support three standard RS-232 communication interfaces  
Ethernet: support standard TCP/IP protocol, 10M Ethernet port, CS8900A, with connectivity and transmission indicator light  
Keyboard: 20-pin scanning keyboard  
Audio: support multimedia voice  
JTAG: 10-pin interface, support writing and debugging program  
Clock: built-in RTC chip, get the power from back-up Li-ion battery  
Expansion bus: 40-pin expansion bus, 16-bit data width and 6-bit address width  
Power: 5V, 500mA, single DC power supply  
Other:  
EEPROM (AT24C0256): one  
Reset button: one  
LED: three  
Buzzer: one  
Adjustable resistance: one  
Size: 96mm\*90



**ARM8008**



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## **EMBEDDED HARDWARE**

### **Hardware Features**

Size: 165mm\*115mm\*20mm

CPU: Intel XScal series PXA270 processor

SDRAM: 64MB

Solid State Memory

NorFlash: 32MB(Intel StrataFlash Memory)

NandFlash: 256MB(Samsung NandFlash Memory)

CF Card: 256MB~1GB (TrueIDE Mode)

Display System

LCD interface: Support DSTN and TFT LCD with RGB interface

VGA interface: Can accessed by an ordinary computer monitor, (the factory setting 640x480)

Audio System

AC97 audio interface: Phone\*1, Line\*1, MIC\*1

Touch screen interface: Support 4-wire Resistive Touch Screen

Communication Interface

RS232 serial port: one three-wire serial, baud rate up to 921.6Kbps

Full-function serial: one nine-wire serial, baud rate up to 921.6Kbps

RS485 serial port: one industry standard RS485 interface

USB Host: two(USB2.0), baud rate up to 12Mbps

USB Client: one(USB2.0), baud rate up to 12Mbps

Ethernet: one, industry-on-chip, 10M/100Mbps adaptive

WLAN: one, expansion of wireless LAN 802.11b/g

PC104 Bus: PC104 bus expansion

Other Device

DC buzzer: one

LED lights: two

RTC backup battery

Independent watchdog timer

General purpose I/O, 8 DI/O

JTAG Debug Interface

Technics Characteristic: 6 layer PCB design, high stability

Operation Temperature: -40'C~ +85'C



**ARM8019**



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## **EMBEDDED HARDWARE**

### **Hardware Features:**

CPU: 60MHz ARM7 processor LPC2292  
SRAM: 512K+16K Byte  
Flash: 256K Byte  
NAND Flash: 64M Byte  
LCD interface: standard homochromatic LCD interface  
Human-computer interface: 4-wire touch screen  
Ethernet: 10M/Mbps Industrial Ethernet  
CAN bus: 2-channel (CAN 2.0 A/B)  
RS232: two, one 5-wire and another one is 3-wire  
CF Card interface: one  
LED light: two  
DC buzzer: one  
External and independent TCR and backup battery  
JTAG debug interface  
Power: single +5V Power Supply  
Size: standard PC104 92mm\*96mm  
Operation Temperature: -40'C~+85'C



**ARM8006**



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