



H/W Specifications

CPU / Memory

- CPU: ATMEL 400MHz AT91SAM9G45 w/ MMU
- Memory: 128MB SDRAM, 256MB NAND Flash
- DataFlash@: 2MB, for system backup

Network Interface

- Type: 1 x 10/100Mbps Ethernet, RJ45 connector
- Protection: 1.5KV magnetic isolation

TTY (Serial) Ports

- 3 x RS-232 (Port 1, 3, 4)
- 1 x RS-422 / 485 (Port 2)
- Connector: 1 x DB9 and 2 x 10 pins header (male) for RS-232 Terminal Block for RS-422 / 485

TTY (Serial) Port Parameters

- Baud Rate: Up to 921.6Kbps
- Parity: None, Even, Odd, Mark, Space
- Data Bits: 5, 6, 7, 8
- Stop Bits: 1, 1.5, 2
- Flow Control: RTS / CTS, XON / XOFF, None
- RS-485 Direction Control: Auto, by hardware

USB Ports

- Host Ports: 4, USB 2.0 compliant
- Speed: Supports low-speed (1.5Mbps), full-speed (12Mbps) and high-speed (480Mbps)
- Client Port: 1 x USB 2.0
- Speed: High-speed (480Mbps)

Display Interface

- LCD Resolution: Up to 1280 x 860 TFT
- Interface Signal: 24-bit TTL / CMOS and LVDS
- Touch Screen: 4-wire touch screen

GPIO (General-purpose I/Os)

- No. of Pins: 4
- Signal Level: CMOS / TTL compatible
- Each pin can be programmed as input or output

General

- Watchdog Timer: Yes
- Real Time Clock: Yes, with backup battery
- Buzzer: Yes
- Power Input: 12~40VDC
- Power Consumption: 200mA@12VDC
- Board Dimensions (W x H): 146 x 120mm
- Operating Temperature: 0~70°C (32~158°F)

Features

- ATMEL 400MHz AT91SAM9G45 CPU w/ MMU
- Windows CE 6.0 with file system
- 128MB SDRAM and 256MB NAND Flash
- 2MB DataFlash for system recovery
- On-board real-time clock w/ backup battery
- Supports up to 1280 x 860 LCD and touch screen
- Supports LVDS
- 1 x 10/100Mbps Ethernet
- 3 x RS-232 ports, 1 x RS-422 / 485 port
- 4 x USB 2.0 hosts supporting high speed of 480Mbps

S/W Specifications

General

- OS: Windows CE 6.0
- RAM-based File System: Up to 94MB free space available
- NAND-based File System: Up to 200MB free space available

Ready-to-use Network Services

- Web Server: Supports ASP
- Telnet Server
- FTP Server

Application Development & Deployment

- Development: It is recommended to use Microsoft Visual Studio 2005 for application development. The M-606 comes with its own SDK for C / C++ programming language.
- Deployment: The application program can be transferred to the M-606 either by ActiveSync or USB pen drive locally or by FTP remotely.

Ordering Information

- **M-606**
WinCE 6.0 ARM9 Single Board Computer