



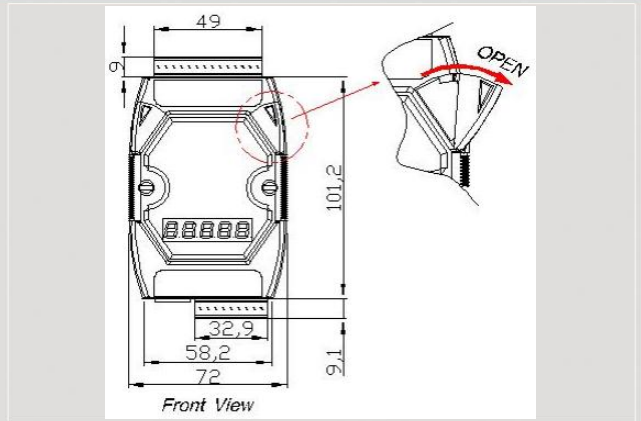
M2M Series Products



Remote maintenance Wi-Fi Device Terminal Unit



M2M-711D



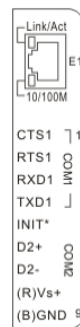
Dimensions

The M2M-711D module is specially designed for the remote maintenance and upgrading the serial to network application solution. Users can choose Ethernet mode or Wi-Fi mode to do the pair connection. And the pair connection provides TCP data tunneling between 2 serial devices. In addition to M2M-710D original features, M2M-711D has the Ad Hoc mode of operation. This operation mode can be used to extend the distance of RS232/485 network without Wi-Fi AP and Ethernet Hub.

Features

- Provide pair connection (RS-232,RS-485) on network
- Web-based administration
- Support Virtual COM technology (It's not supported in Wi-Fi/Ad Hoc mode)
- Accommodatingly with M2M-420-A, M2M-720-A, M2M-710D
- Built-in MiniOS7 OS to keep off the computer virus
- Ethernet Protocol: TCP, UDP, IP, ICMP, ARP,RARP
- Supply static IP/DHCP (Ad Hoc mode don't support DHCP)
- Provide dynamic DNS function
- Supports IEEE 802.11 b/g for Wi-Fi mode
- Supports WEP-64,WEP-128, WPA-TKIP and WPA2-AES encryption for Wi-Fi mode
- Supports WEP-64,WEP-128 encryption for Ad Hoc mode
- Supports 1~13 RF Channel
- Supports auto control RF channel in Wi-Fi mode
- Auto control channel in Wi-Fi mode
- Ad Hoc mode transmission range up to 100 m(Line of sight)
- Built-in web server
- Quick start
- 5-Digit 7 Segment LED Display
- EMI, RoHS compliance

Pin Assignments



| Pin | Name | Description |
|-----|-------|---------------------|
| 1 | CTS1 | Clear to Send |
| 2 | RTS1 | Request to Send |
| 3 | RxD1 | Receive Data |
| 4 | TxD1 | Transmit Data |
| 5 | INIT | Init Pin |
| 6 | DATA+ | Data+ of RS-485 |
| 7 | DATA- | Data- of RS-485 |
| 8 | Vs | Vs of Power Supply |
| 9 | GND | GND of Power Supply |

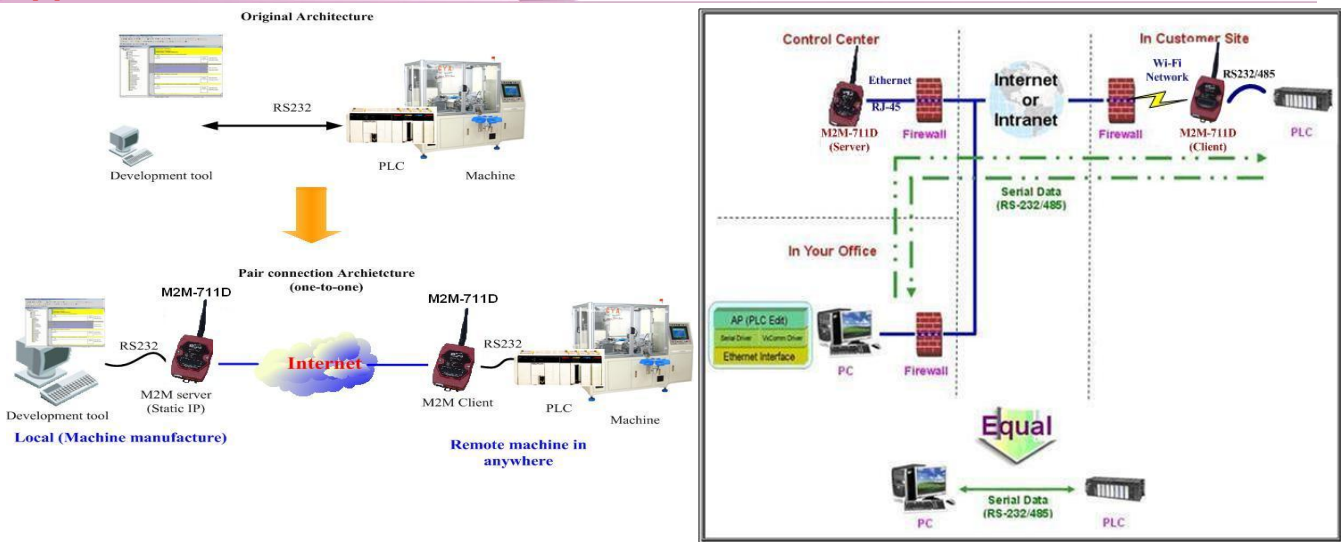
Web-based administration



Hardware Specifications

| | |
|---|---|
| System | |
| CPU | 80186-80 MHz or compatible |
| SRAM | 512K |
| Flash | Flash ROM: 512 KB ; Erase unit is one sector (64 KB) ; 100,000 erase/write cycles |
| EEPROM | 16 KB, retention > 40 years. 1,000,000 erase/write cycles |
| Communication Interface | |
| COM ports | COM1:5-wire RS-232(RxD, TxD, RTS, CTS, GND); COM2: RS-485(DATA+, DATA-) Baud Rate : 1200/2400/4800/9600/19200/38400/57600/115200 bps Data Format: 7/8 data bits, None/Odd/Even parity bit, 1/2 stop bit |
| Ethernet | 10/100 Base-TX Ethernet controller |
| Wireless Network Interface(IEEE 802.11b/g) | |
| RF channels | 1~13; 1: Supports auto control channel in Wi-Fi mode |
| Receive sensitivity | -87 dBm(IEEE 802.11b) / -72 dBm (IEEE 802.11g) |
| Data encryption | WPA-TKIP / WPA2-AES / WEP-64 /WEP-128 (It's not supported WPA-TKIP,WPA-AES encryption in Ad Hoc mode) |
| Transmit Power | 12 dBm(IEEE 802.11b) / 14 dBm(IEEE 802.11g) |
| Antenna | 2.4GHz - 2dBi Omni-Directional antenna |
| Transmission range | 100M(LOS) |
| Power | |
| Protection | Power reverse polarity protection |
| Power supply | Unregulated +10 V _{DC} ~ +30 V _{DC} |
| Power Consumption | 3.6W |
| LED Indicators | |
| 5-Digit 7 Segment | Yes |
| System | Red |
| Wireless Network | Yellow |
| Mechanical | |
| Dimensions | 72 mm x 33 mm x 123 mm (W x L x H) Detail |
| Installation | DIN-Rail or Wall Mounting |
| Environment | |
| Operating Temperature | -25 ~ +75 °C |
| Storage Temperature | -30 ~ +80 °C |

Applications



Ordering Information

M2M-711D

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