The M2M-711D module is specially designed for the remote maintenance and upgrading the serial to network application solution. Users can choose Ethernet or Wi-Fi to connect the VxServer software in PC.

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 VxServer software
  - Support Virtual COM technology
  - 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 AP mode
  - Supports WEP-64, WEP-128 encryption for Ad Hoc mode
  - Supports 1~13 RF Channel
  - Supports auto control RF channel in AP mode
  - Auto control channel in AP 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**

- **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; AP mode supports auto control channel
- **Receive sensitivity**: -87 dBm (IEEE 802.11b) / -72 dBm (IEEE 802.11g)
- **Data encryption**: WPA-TKIP / WPA2-AES / WEP-64/128 /WPA-AES encryption in Ad Hoc mode
- **Transmit Power**: 12 dBm (IEEE 802.11b) / 14 dBm (IEEE 802.11g)
- **Antenna**: 2.4GHz - 5dBi Omni-Directional antenna
- **Transmission range**: 100M (LOS)

### Power
- **Protection**: Power reverse polarity protection
- **Power supply**: Unregulated +10 V<sub>DC</sub> ~ +30 V<sub>DC</sub>
- **Power Consumption**: 3.5W

### 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)
- **Installation**: DIN-Rail or Wall Mounting

### Environment
- **Operating Temperature**: -25 ~ +75 °C
- **Storage Temperature**: -30 ~ +80 °C

## Applications

![Applications Diagram]

## Ordering Information

| M2M-711D | Remote maintenance Wi-Fi Device Terminal Unit |