RMV-760D-MTCP Quick Start





English/ Jan. 2016/ Version 2.0

What's in the shipping package?

The package includes the following items:



RMV-760D-MTCP



CD

Quick Start

(This Document)



Screw Driver

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CA-0910



ANT-124-05

Install RMV-760D-MTCP Utility:

 $usbcd:\ napdos\ rmv-760d-mtcp\ software\ rmv760dmtcp\ v20.exe$



- 1. Make sure your PC has workable network settings.
- 2. Check Init/Normal DIP switch if it is on Normal position (Figure 3-1).



Figure 3-1 Mode Switch

3. Connect both the RMV-760D-MTCP and your computer to the same sub network or the same Ethernet switch, and power the RMV-760D-MTCP on. Please refer to figure 3-2.



Figure 3-2 RMV-760D-MTCP module installation

4. Wire Connection



| Pin | Name | Description |
|-----|--------|----------------------------------|
| 1 | Rx | Rx of RS-232 |
| 2 | Tx | Tx of RS-232 |
| 3 | GND | GND of RS-232 |
| 4 | Tx+ | Tx+ of RS-422 / D+ of RS-485 |
| 5 | Tx- | Tx- of RS-422 / D- of RS-485 |
| 6 | Rx+ | Rx- of RS-422 |
| 7 | Rx- | Rx- of RS-422 |
| 8 | (R)+Vs | V+ of Power Supply (+10~+30 VDC) |
| 9 | (B)GND | GND of Power Supply |
| | | |

Using the RMV-760D-MTCP Utility

1. Run the "RMV-760D-MTCP" Utility.

E1

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-com1

-COM2-

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| 👸 RMV-760D-MTCP v2.0 | | | | | | | | |
|---|----------------|--------|--------------------|-------------------|--|--|--|--|
| Module IP: 192 168 255 1 CONNECT DISCONNECT | | | | | | | | |
| Ethemet IP Address : | 192 168 255 | 5 1 | Serial Port Net ID | 1 | | | | |
| Subnet Mask | 255 255 0 | 0 | Baud Rate : | 115200 | | | | |
| Gateway : | 192 168 0 | 254 | Data Bits: | 8 | | | | |
| DHCP : | 🔘 Enable 	 💿 D | isable | Parity : | None | | | | |
| Wi-Fi | | | Stop Bits I | 1 | | | | |
| Mode : | AP | • | Operation Mode | | | | | |
| SSID : | RM¥760DMTCP | |) MB RTU and | d MB TCP gateway | | | | |
| Security : | WEP | • | Pair-Connec | O Pair-Connection | | | | |
| Pass Word 1 | rmv760dmtcp | | © ¥хSегчег | | | | | |
| Channel : | 7 | 4 | | | | | | |
| IP Address : | 192 168 255 | 5 1 | Connect to Server | | | | | |
| Subnet Mask : | 255 255 0 | 0 | Server IP . | | | | | |
| Gateway : | 192 168 0 | 254 | | Submit | | | | |
| DHCP : | 🔘 Enable 🔘 D | isable | | EXIT | | | | |

Figure 4-1. RMV-760D-MTCP Utility

2. Click the "Connect" button to connect your RMV-760D-MTCP(Figure 4-1).

| Server IP: | 192 168 | 255 1 | CONNECT | DISCONNECT |
|------------|---------|-------|---------|------------|

Figure 4-2. Utility "Connect" button

3. Configure Ethernet, Wi-Fi and Serial Port settings.

| | | | -Wi-Fi | |
|--------------|--------------------|--------------------|-------------|-------------|
| Ethernet | | Serial Port | Mode : | Ad-Hoc |
| IP Address : | 192 168 255 1 | Baud Rate : 115200 | SSID : | RM¥760DMTCP |
| Subnet Mask: | 255 255 0 0 | Data Bits : 8 | Security : | WEP |
| Gateway : | 192 168 0 254 | Parity: None | Pass Word : | 0123456789 |
| DHCP : | 🗇 Enable 💿 Disable | Stop Bits : 1 | Channel : | 8 |

Figure 4-3. Communication settings.

4. Default Configurations

| Table 4-1 Default Settings | | | | | | | |
|----------------------------|-------------------------|--|--|--|--|--|--|
| Ethernet | | | | | | | |
| Item | Item Settings (default) | | | | | | |
| IP | 192.168.255.1 | | | | | | |
| Gateway | 192.168.0.1 | | | | | | |
| Mask | 255.255.0.0 | | | | | | |
| | Wi-Fi | | | | | | |
| Mode | Ad-Hoc | | | | | | |
| SSID | RMV760DMTCP | | | | | | |
| Security | WEP | | | | | | |
| Pass Word | rmv760dmtcp | | | | | | |
| Channel | 6 | | | | | | |
| | Serial Port | | | | | | |
| Baud Rate | 115200 | | | | | | |
| Data Bits | 8 | | | | | | |
| Parity | None | | | | | | |
| Stop Bits | 1 | | | | | | |

5. Select the operation mode



Figure4-4. Operation Mode

i. MB RTU Slave to MB TCP Client and MB TCP Server to MB RTU Master



Figure 4-5. Modbus RTU and Modbus TCP data exchange



ii. Pair Connection

- Figure4-7. VxComm
- 6. Click "Submit" button to complete all your settings.



Step1: Download VxComm Driver:

http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/vxcomm_driver/

"VxComm2K_v2.11.05_setup.exe" for Windows NT4.0, 2000 /XP/2003 and Vista32 (32-bit)
"VxComm98.exe" for Windows 95/98/ME
Please select the most suitable for your Windows and download

Step2: Open VxComm Utility and click "Add Server(s)".

| Superior Willity (v2.13.0) | 2, Jun.22, 2015] | | | | _ | × | | |
|---|------------------|--------|------------|-------------|-----------|-------------|----------|---|
| <u>File Server Port T</u> ools | | | | | | | | |
| | | Config | ure Server | | | Configure | Port | |
| VxConfine & utility Where remote scree dence become part of your PC | V×Comm Se | rvers | | | Port | Virtual COM | Baudrate | |
| Add Server(s) | | | | | | | | |
| Remove Server | | | | | | | | |
| 🥑 Web | | | | | | | | |
| Search Servers | Name | Alias | IP Address | Sub-net Mas | k Gateway | MAC Address | DHCP | |
| Configuration (UDP) | | | | | | | | |
| Exit | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Status | | | | | | | | 1 |

Step3: Fill out your Module IP address and click "OK".

| Adding Servers | × |
|--|----|
| IP Range Server Options Port Options | 1 |
| Server Information Get name automatically | |
| IP Range Start : 192.168.255.1 | |
| IP Range End : 192.168.255.1 Includes the following special IP : □ 0 (Net) ☑ 254 (Gateway) □ 255 (Broadcast) | |
| Virtual COM and I/O Port Mappings | |
| COM Port : COM1 💌 | |
| ☐ Fixed baudrate, use current settings of servers. | |
| ☐ Maps virtual COM ports to "Port I/O" on servers. | |
| OK Cance | :1 |

Step4: Reset VxComm Driver to make settings take effect.

| 🥩 VxCo | omm Utility [v2.13.0 | 2, Jun.22, 2015] | | | | | | - | | × |
|------------|----------------------|-------------------|-------|-------------------|-------------|----------------|-------------|--------------------|--|---|
| File Ser | rver Port Tools | | | | | | | | | |
| | | Restart Driver | | figure Server | | Configure Port | | | | |
| | - | Terminal | | | i | Port | Virtual COM | Baudrate | | _ |
| VX | | Modbus RTU Mas | ter | • (192.168.255.1) | | Port I/O | Reserved | N/A | | |
| beco | ome part of your P | Modbus TCP Mas | ter | | | Port 2 | COM2 | Dynamic Dynamic | | |
| | | Driver Options | | | | | | | | |
| <u> </u> | | System Informatio | n | | | | | | | |
| ٢ | Web | | | ļ | | | | | | |
| ji ka s | Search Servers | Name | Alias | IP Address | Sub-net Mas | k Gateway | MAC Address | DHCP | | |
| Config | guration (UDP) | | | | | | | | | |
| | Exit | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Status: Ok | K | , | | | | | | | | |