



RMV-531

Quick Start

June 2018 Version 1.1

● Package checklist

The package includes the following items:

- One RMV-531 hardware module
- One 3G/2G Antenna
- One RS-232 cable (CA-0910)
- One Quick Start
- One screw driver



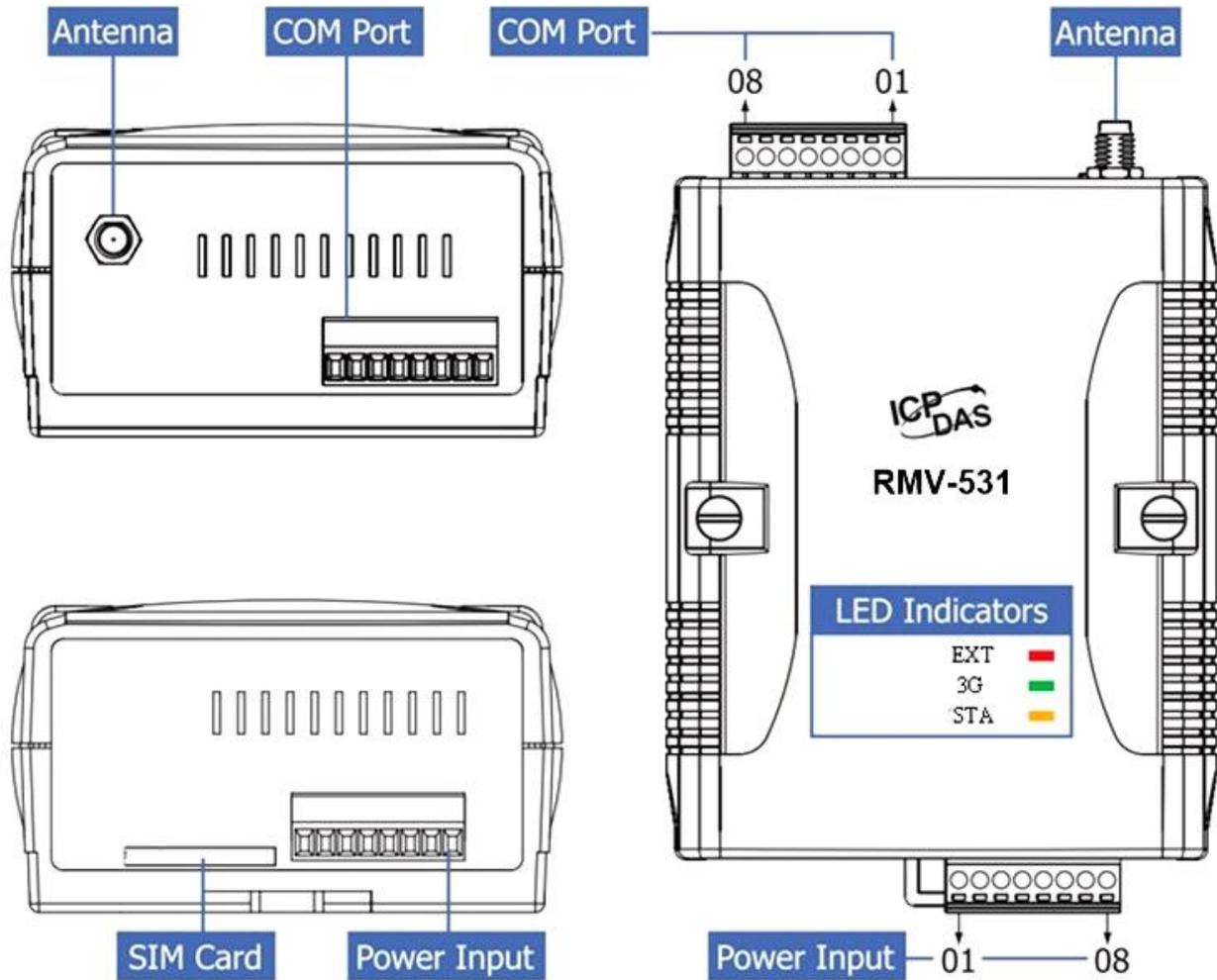
● Related Documents and Software Utilities

- RMV-531 User Manual and Quick Start:
<ftp://ftp.icpdas.com.tw/pub/cd/usbcd/napdos/rmv-531/manual/>
- RMV-531 Utility:
<ftp://ftp.icpdas.com.tw/pub/cd/usbcd/napdos/rmv-531/software/>
- RMV-531 Website:
<http://m2m.icpdas.com/RMV-531.html>

● Appearance and pin assignments

Power Input		
Terminal No.		Pin Assignment
N/A	01	N/A
	02	N/A
	03	N/A
GND	04	GND
Initial	05	Init
Power Input: 10 ~ 30 VDC	06	DC.+VS
	07	DC.GND
Frame Ground	08	F.G

COM Port		
Terminal No.		Pin Assignment
COM2 RS-485	01	DATA-
	02	DATA+
COM1 RS-232	03	TxD1
	04	RxD1
	05	GND
N/A	06	N/A
Utility Port RS-232	07	TxD
	08	RxD



● LED indicators

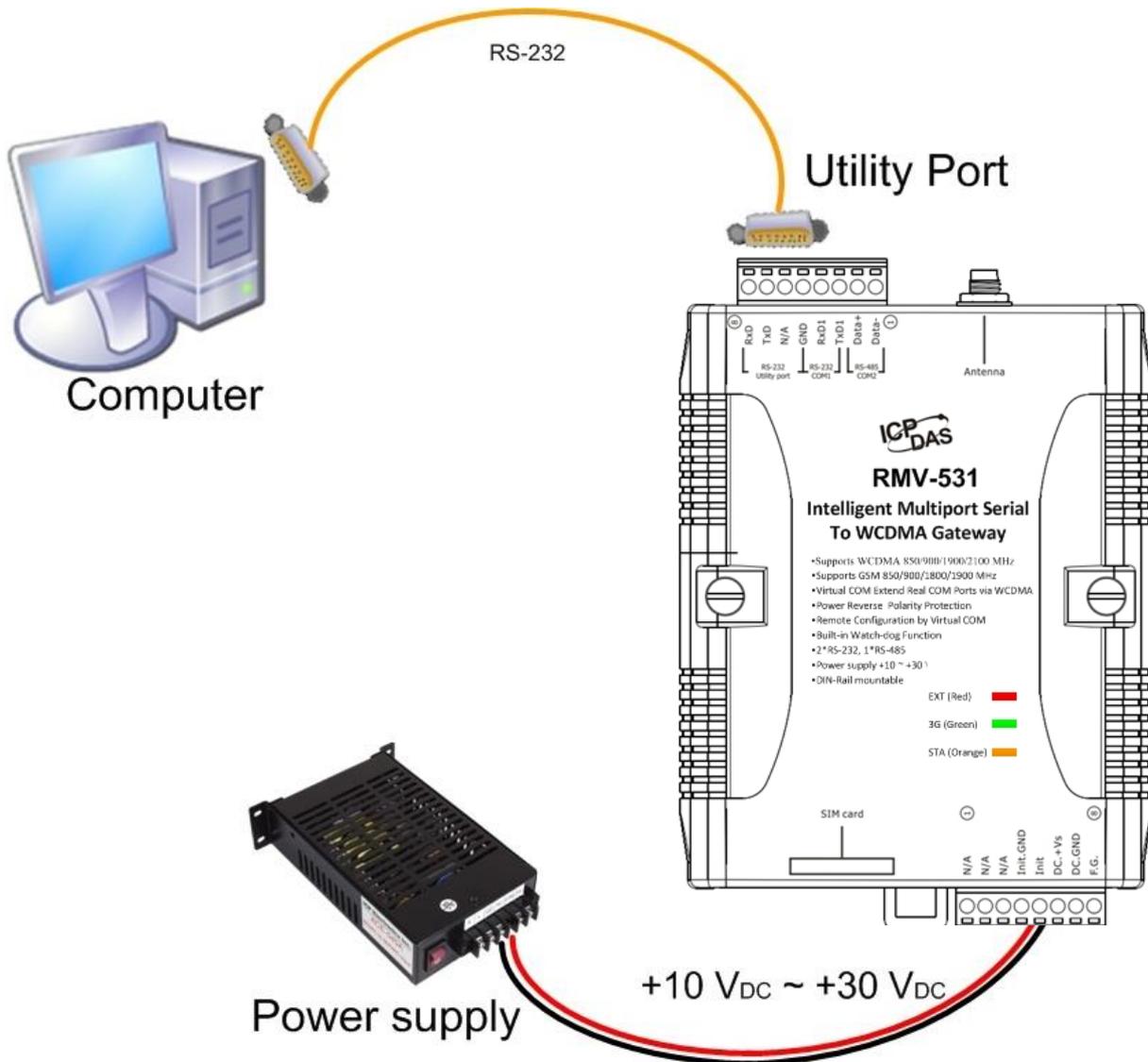
LED	Description			
EXT(red)	ON		The external Power is active	
	OFF		The external Power is not active	
3G(green)	Blinking(3 sec)		GSM mode	
	Twinkling twice per 3 sec		3G mode	
	OFF		Modem fail (or Blinking(not 3 sec))	
STA (orange)	Normal	Connected	GSM Fail	PIN code is wrong
	Blinking (1 sec)	Blinking (0.5 sec)	Always ON or OFF	Blinking per 50 ms

● Installation

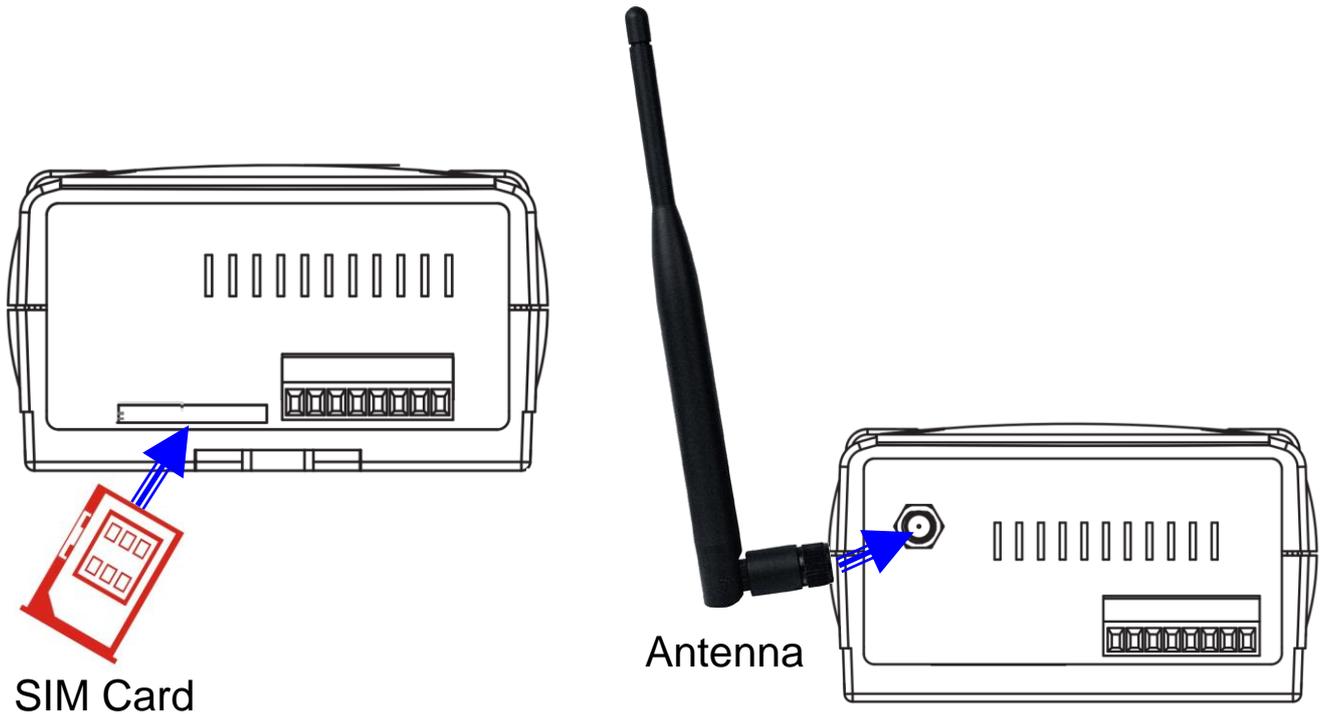
If users want to start RMV-531 normally, it needs to follow these steps to install the RMV-531 below:

1. Install the antenna
2. Plug in the normal SIM card (Before apply the SIM card, confirm its 3G function is OK by mobile phone.)
3. Install the micro SD(Option, for the voice alarm files)
4. Pin06 and Pin07 of the power input connect to the DC.+VS and DC.GND of the power supply. (+10 V_{DC} ~ +30 V_{DC})

➤ Power supply and Utility Port installation

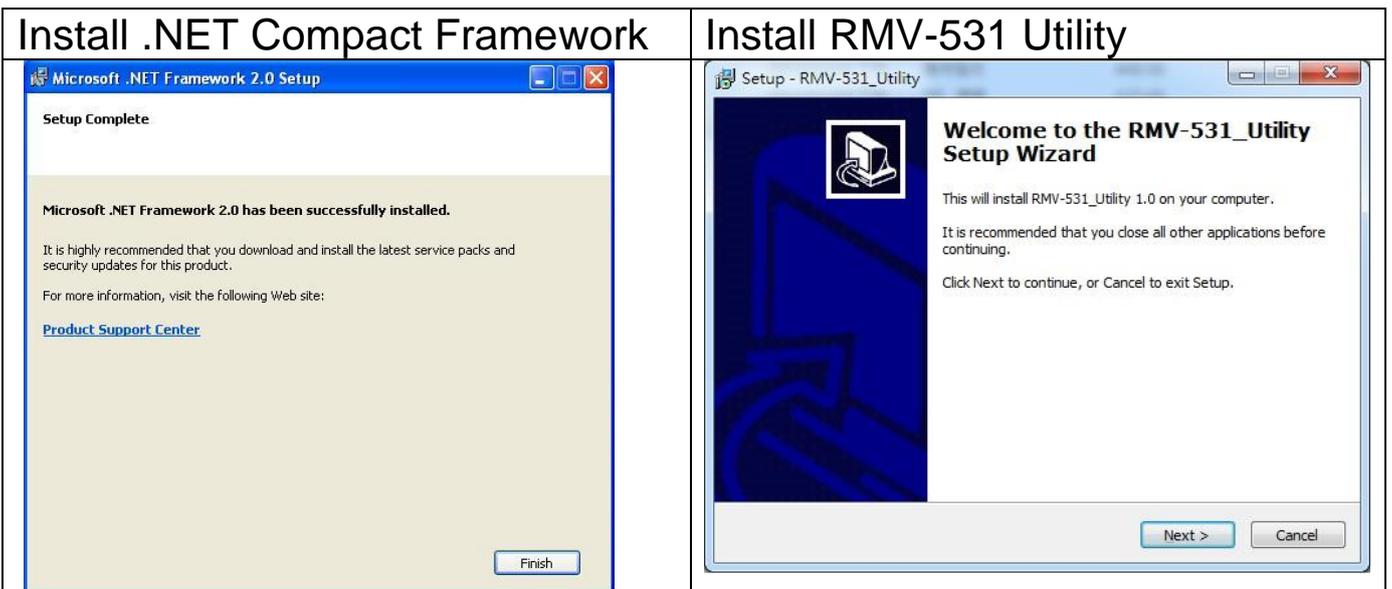


➤ Antenna and SIM card installation



● **RMV-531 Utility**

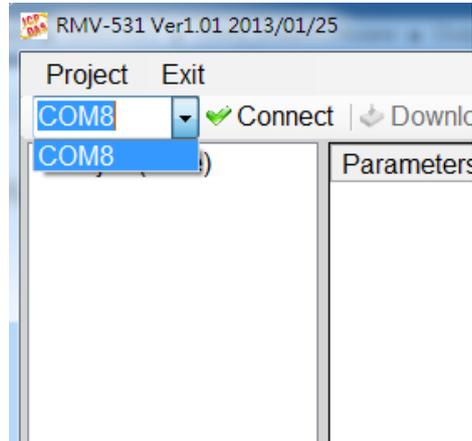
It needs the runtime environment with .NET Framework 2.0 or above to execute the RMV-531 Utility in the PC.



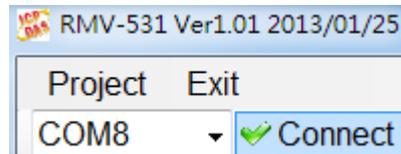
● Operation

For setup your RMV-531, you can follow these steps as following.

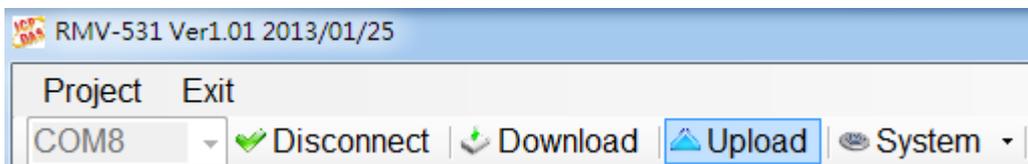
1. Select the COM port of the host PC and connect to the Utility port of RMV-531



2. Click the “Connect” button to connect to the RMV-531. If the connection is failed, check the COM port settings and wiring.



3. Click the “Upload” button to upload these parameters form the RMV-531.



4. Set Parameters -- System :

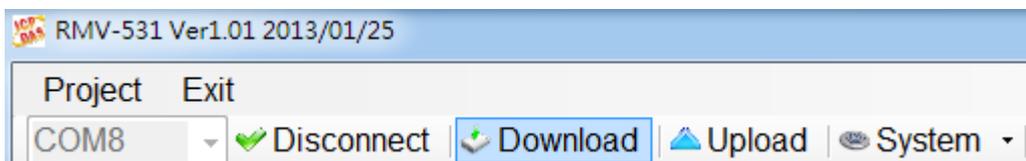
<ul style="list-style-type: none"> [-] Prject(none) <ul style="list-style-type: none"> [-] System <ul style="list-style-type: none"> [-] COM Port <ul style="list-style-type: none"> [-] COM1 [-] COM2 	Parameters	Value
	Net ID	1
	Function	VxComm
	Remote Server	1.2.3.4
	Remote Server Port	11000
	Internet User Name	GUEST
	Internet Password	GUEST
	Internet APN	INTERNET
	Virtual IP	127.0.0.22
	Device Alias	RMV Series
	Heartbeat Time	10
	Com End Method	Time
	Com End Param.	2

5. COM Port Configuration (Read only) :

<ul style="list-style-type: none"> [-] Prject(none) <ul style="list-style-type: none"> [-] System <ul style="list-style-type: none"> [-] COM Port <ul style="list-style-type: none"> [-] COM1 [-] COM2 	Parameters	Value	Description
	Port	COM1 (RS-232)	Read Only
	Data Bit	8	Read Only
	Stop Bit	1	Read Only
	Parity Bit	none	Read Only
	Baudrate	115200	Read Only

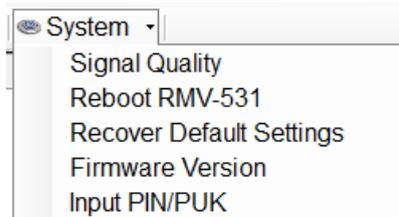
Parameters	Description
Port	COM Port name (read only)
Data Bit	7 or 8 bits
Stop Bit	1 or 2 bits
Parity Bit	None, Even, Odd
Baudrate	2400 、 4800 、 9600 、 19200 、 38400 、 57600 and 115200bps

6. Click the “Download” button to download parameters to RMV-531



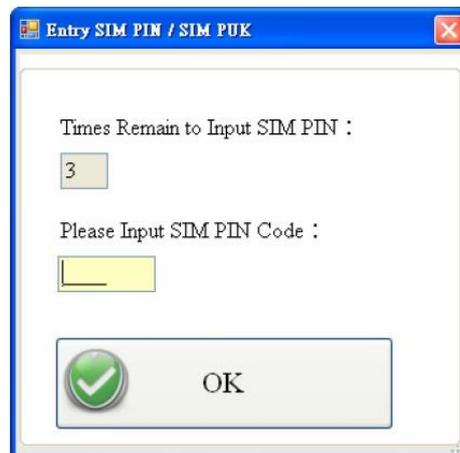
● PIN/PUK Code

When the RMV-531 starts and the STA LED is blanking per 50 ms, it is needed to input the PIN or PUK code in the RMV-531. In this condition, click “System->Input PIN/PUK” button to set the PIN/PUK code.



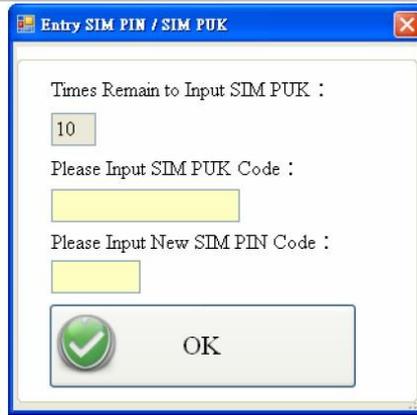
(1) Asking for inputting PIN code:

If the PIN code is effective, the “Enter SIM PIN/SIM PUK” window would pop-up as follows. If the number of times for inputting the wrong PIN code is more than the allowed number, the PIN code would be ineffective. And the “PUK code” window would pop up.



(2) Asking for inputting PUK code

If the PIN code is ineffective, the “PUK code” window would pop-up as follows. As the number of times for inputting the wrong PUK code is more than allowed number, the SIM card would be ineffective forever. Therefore, it is important to input the correct PUK code.



● Troubleshooting

Item	Trouble state	Solution
1	EXT LED is off	Please check the external power and wire connection.
2	STA is always on	<ol style="list-style-type: none"> 1. Check SIM card. 2. Check Antenna. 3. Check the WCDMA signal strength. 4. Check your SIM Card that enabled WCDMA function
3	RMV-531 Utility cannot connect to RMV-531 device	Check COM port wire connection.
4	Don't have the user name, password or APN of WCDMA	Confirm these parameters with your cell provider.
5	Can't connect to VxServer	<ol style="list-style-type: none"> 1. Check the remote server's IP 2. Check the remote server's Port 3. Check the Virtual IP

● Technical Support

If you have problems about using the RMV-531, please contact ICPDAS Product Support.

Email: Service@icpdas.com