

GRP-540M-NB Quick Start

v1.0.0, 2018

What's in the box?

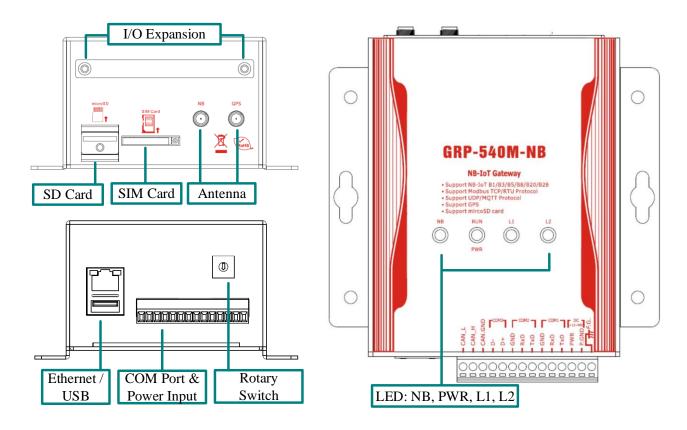
In addition to this guide, the package includes the following items:



Related Documents and Software Utilities Documents

- User Manual: GRP-540M-NB User Manual EN.pdf
- Quick Start: GRP-540M-NB Quick Start EN.pdf
 ftp://ftp.icpdas.com.tw/pub/cd/usbcd/napdos/grp-540m-nb/manual/
- GRP-540M-NB software Website: http://m2m.icpdas.com/GRP-540M-NB.html

Appearance and Pin Assignments



	COM Port &	Power Input
Termin	al No.	Pin Assignment
	14	F.G.
Power	13	P.GND
	12	PWR
	11	TxD1
COM1	10	RxD1
	09	GND
	08	TxD2
COM2	07	RxD2
	06	GND
COM2	05	D+
COM3	04	D-
	03	CAN.GND
CAN	02	CAN_H
	01	CAN_L

2 LED indicators

A. **PWR**(**Green**): Power LED to indicate whether the external power is input or not. The description is as follows:

The external power is active	The external power is not active
on	off

B. **RUN(Red)**: RUN LED indicates if the OS is normal or fail.

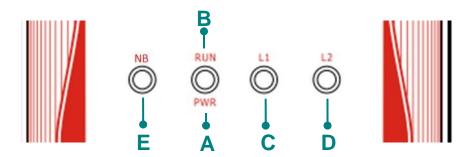
Normal	Fail
Heart beat (1 sec.)	Always ON or OFF

C. L1(Green/Red): this Led indicates the status of RTU Client.

Normal	Fail
500ms ON / 500ms OFF	Always ON or OFF

- D. **L2(Green/Red)**: reserve.
- E. **NB-IoT**(**Green**): The LED indicates the status of NB-IoT module. (the NB-IoT module need about 60 seconds to register network usually)

Registered	NB-IoT data transmit	Not Register
333ms ON / 3000ms	50ms ON, 50ms OFF	500ms ON / 500ms
OFF		OFF



3 Installation

If users want to start GRP-540M-NB normally, it needs to follow these steps to install the GRP-540M-NB below:

- A. Install the antenna.
- B. Plug in the normal SIM card.
- C. Plug the Ethernet cable if you need it.
- D. If you want to use the Micro SD card, please insert it into the slot.
- E. Connect the DC.+VS and DC.GND to the power supply.
- F. Need wait about 20 ~ 30 seconds for OS booting. After finishing the process, GRP-540M-NB would be in normal operation mode and the OS LED would blank as heart beat per 1 sec.
- G. It is needed to wait about 30 ~ 60 seconds to search the NB-IoT base and register to the ISP. After finishing the process, the NB-IoT LED would blank per 3.333 secs.

4 Web Utility

1. Login

Default username = "admin", and default password = "admin" Default IP = "192.168.255.1"

Default Mask = "255.255.0.0"



After login, the screenshot is showed as below:



Infor	mation
<u>Dev</u>	ice Info
	work Info
Stor	age Info
Netw	ork
<u>Eth</u> e	ernet
Syste	em
	word
Reb	oot
Reb	oot Timer
<u>Baci</u>	kup/Restore
<u>Upd</u>	ate
Rest	tore Factory
<u>Tim</u>	<u>e</u>
NB-I	oT Client
	IoT Client

	Ethernet	
Mode	static	
MAC address	44:ea:d8:9e:fe:e0	
IP Address	192.168.255.1	
Mask Mo	255.255.0.0 dem information (update when sending message)	
Mo	dem information (update when sending message)	

GPS is not ready

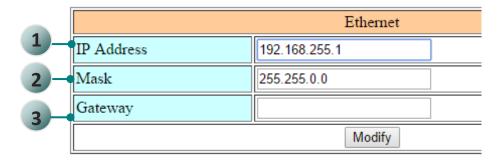
\$GPRMC,,V,,,,,,,,,,N*53

2. Ethernet

This page provides the basic settings of Ethernet:

GPS Status

GPS Data



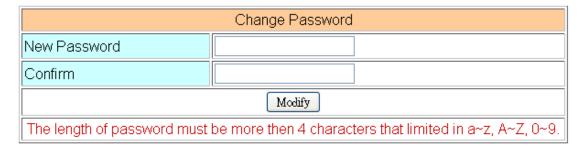
(1) IP Address: IP of Ethernet.

(2) Mask: the Mask of the gateway.

(3) Gateway: IP of the gateway.

3. Password

The user can change the password of the web utility here.



(1) Password: new password.

(2) Confirm: confirm the password again.

4. Update

The user can update the device's firmware by themself. Need to go to the product page and download the update file (updateFile.tarc). Must put the update file into SD card and backup your config before update.



5. The advance settings of web utility

Please refer the user manual of GRP-540M-NB.