GTP-541M
FAQ

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Q01: How can I confirm that my SIM card can support GTP-541M?

A01:

The frequency bands supported by the GTP-541M are:

FDD LTE (Asia 4G system): B1/B3/B8

TDD LTE (China 4G system) : B38/B39/B40/B41

GSM/GPRS (2G system) 850/900/1800/1900 MHz

WCDMA (3G system) 850/900/1900/2100 MHz

Please ask the SIM card carrier you want to use:

1. Is there any support for the above bands?
2. Whether the area where the GTP-541M is placed can receive the signal of this frequency band

Q02: Unable to register troubleshooting (4G light is abnormal)

A02:

4G (Green)	Flash once every 1 second	4G module is normal (standby mode)
	Flashes twice in 1 second	4G module is normal (online mode)
	not bright	4G modem fail

- Confirm that the antenna and SIM card are properly installed.
- Use your mobile phone to confirm if the SIM card can be registered.
- Confirm the SIM card by referring to step Q01.
- Confirm that the PIN Code is set correctly, or use your mobile phone to cancel the PIN Code.

Turn on Utility to confirm if the signal strength is too low (< 30%)

ModBusSMS function: Page.30 - Section 5.6

DIOSMS Features: Page.77 - Section 6.6

RMV function: Page.102 - Section 7.5

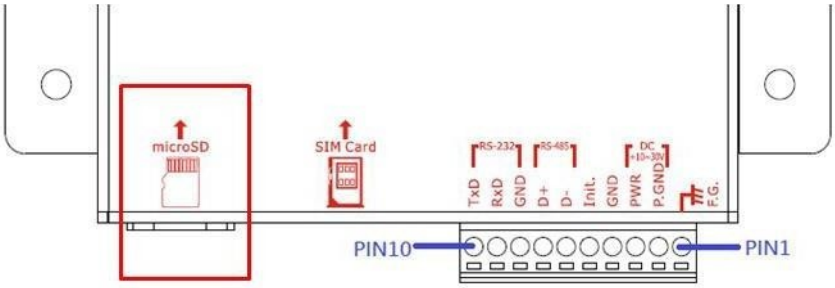
Q03: How to switch between different functions?

A03:

The GTP-541M needs to update the firmware to switch between different functions. After updating the firmware, you must use the Utility setting to reply to the factory default. Proceed as follows:

1. Open the screw at the red frame and remove the SD card.

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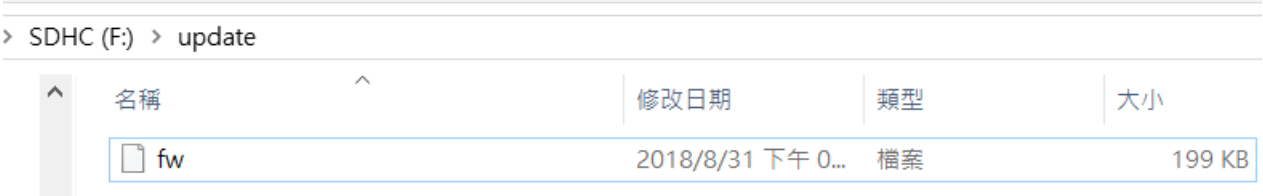
2. Create a folder named "update" in the SD card folder.



3. On the GTP-541M website, click the firmware to enter the FTP page to download the type of Firmware to be replaced.



4. After downloading the firmware to be updated, put the file into the "update" folder of the SD card and rename the firmware file to "fw".



5. Plug the SD card back into the GTP-541M and reboot.
6. If the programming is successful, the STA light and GPS light will flash at every 0.1 seconds for 10 seconds, then the GTP-541M will restart automatically.

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Please refer to the update operation instructions. : manual (Page.132)

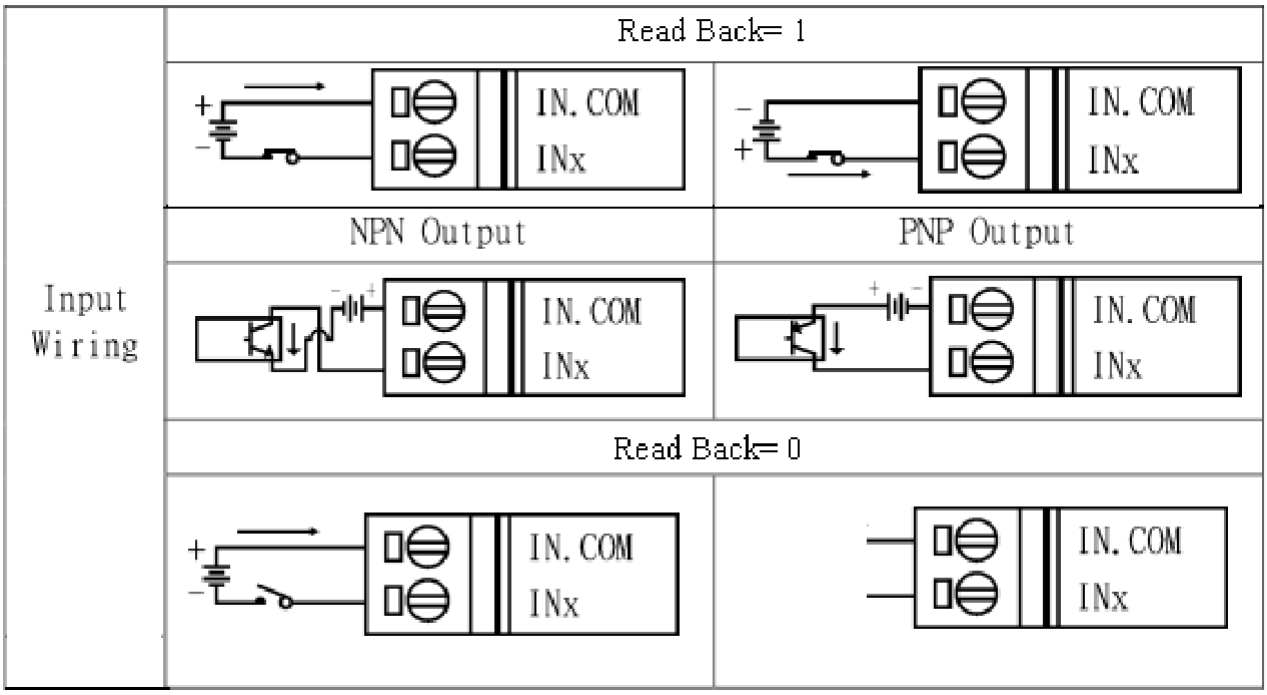
Q04: DI function is abnormal, how to solve it

A04:

- Please confirm whether the DI.COM pin is connected and the DI wiring is correct.

DI/DO Port					
Pin		**Description**	**Pin**		**Description**
AI	**1**	AI0 +	**AI**	**15**	AI2 +
	2	AI0 GND		**16**	AI2 GND
	3	AI1 +		**17**	AI3 +
	4	AI1 GND		**18**	AI3 GND
DI	**5**	DI.COM	**Extended Option**	**19**	
	6	DI0		**20**	
	7	DI1		**21**	
	8	DI2		**22**	
	9	DI3		**23**	
	10	DI4		**24**	
DO	**11**	DO1		**25**	
	12	DO0		**26**	
DI/DO Power	**13**	Ext.PWR		**27**	
	14	Ext.GND		**28**	

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Q05: No action when using the Uart software to the ModBus command under the GTP-541M

A05:

- Please confirm whether the Uart software used can send the ModBus command, otherwise the format will be judged as an error command.

Q06: Why can't I log in to the Utility software?

A06:

- Please confirm that the Init pin is connected.

COM Port and Power Input		
Pin		**Description**
Frame Ground	**1**	F.G
Power Input：+10V$_{DC}$ ~ +30V$_{DC}$	**2**	P.GND
	3	PWR
Init.	**4**	GND
	5	Init.
COM 1 RS-485	**6**	D-
	7	D+
COM 1 Utility Port RS-232	**8**	GND
	9	RxD
	10	TxD

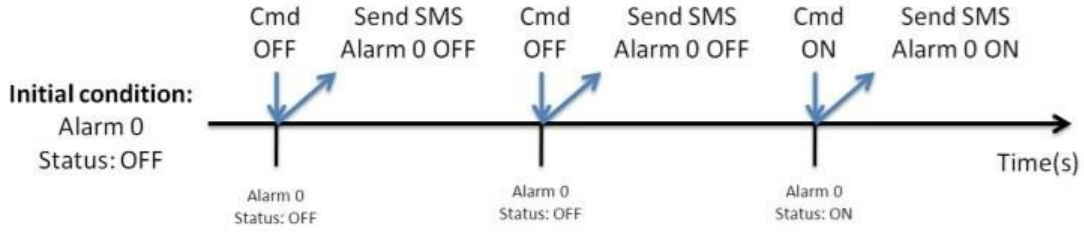
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- After logging in the Utility settings, remember to disconnect the Init pin before you can perform normal actions.

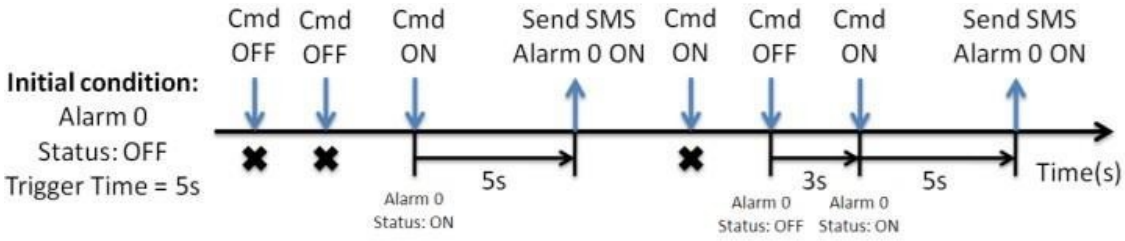
Q07: What is the difference between Level Trigger and Edge Trigger mode?

A07:

1. Level Trigger mode：It will trigger regardless of the original state.



2. Edge Trigger mode：Triggered when the state changes.



Q08: Can foreign numbers be used?

A08:

- The phone number can be entered into 19 yards and is available.

Q09: After triggering the alert message, the phone received multiple message

A09:

If you have to replace the firmware, you must first use the Utility to return the GTP-541M to the original state once. If it is still the same, confirm whether the setting is correct and whether the GTP-541M input has transmitted multiple commands.

ModBusSMS back to factory settings: Page.31 - Section 5.6.4
DIOSMS Features: Page.79 - Section 6.8.1
RMV function: Page.103 - Section 7.6

Q10: ：Can the GTP-541M use the NC/NO trigger SMS at the same DI?

A10:

In the GTP-500M DIOSMS function, each DI can only be set once. It is not possible to set two EVENTs to the same DI and set NO and NC respectively, and there is no related function.

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Q11: : I send a ModBus command to the GTP-541M via the PLC and receive a duplicate message.

A11:

GTP-541M only has 10 alarm spaces, and the vacant space after sending out will be filled with the first alarm received, so the situation of repeated SMS will occur, and the time when the PLC sends the command must be adjusted, because GTP-541M sends the message. The time spent will vary depending on the strength of the signal.

Q12: The format of the voice file I used has been determined to be the same as that in the manual. Why is there still no voice when receiving the voice alarm?

A12:

It is recommended to use the "GoldWave" file transfer software, because some files transferred by the file transfer software will still have deviation in the audio track part, resulting in the same format but unable to use the read data.

Q13: GTP-541M has used the utility to set parameters and write them successfully, but why can't the SMS alarm be triggered?

A13: Please confirm whether there is any connecting wire on the init pin. After the parameter setting, the wire on the init pin must be unplugged, otherwise it will always be in the parameter setting mode.

Q14: Writing parameters using the utility fails.

A14: Please confirm whether the communication line is unstable. You can use the comport monitoring software to confirm whether the data transmission status is caused by the instability, such as timeout or garbled code.

Q15: The alert message was not received.

A15:

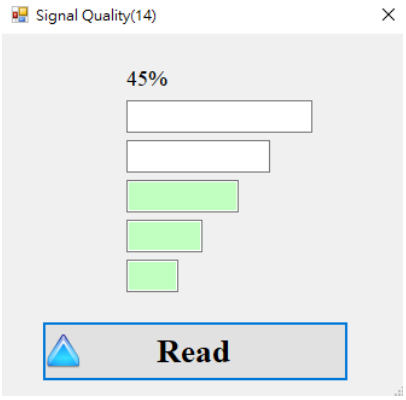
- Check that the SIM card is properly installed and able to send SMS.
  1. Use your phone to check the SIM card and make sure that the SIM card hardware is functioning properly.
  2. In accordance with NCC regulations, for domestic telecom service providers, the daily SMS sending quantity must not exceed the regulatory limit (usually 50 messages per phone number). Overseas telecom service providers aren't limited.
  3. Click Utility → "System" → "Signal Quality" → "Read". If it shows " Not Registered", it may be because your SIM card is not properly installed or the SIM card registration has failed.



- Ensure that the antenna is properly installed and the signal strength in the environment is good.
  1. Click Utility → "System" → "Signal Quality" → "Read". 100% represents the best signal strength,and 0%

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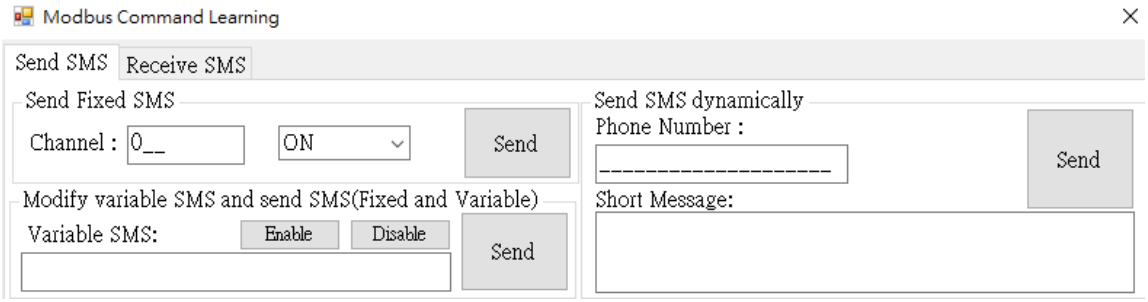
represents the worst signal strength. We recommend that the signal strength be above 50% to send SMS.



- Ensure that the SMS sending function is working properly.

With SMSMB firmware

1. Before powering on the device, make sure that the "Init." and "GND" pins are properly connected.
2. Click Utility → “Learn”. Type in the recipient's number and message in the "Phone Number" and "Short Message" fields under "Send SMS dynamically".,then click “send” to test SMS sending function.



3. Finish testing and remove the connection between "Init." and "GND" pins.
4. Use Modbus command to trigger SMS.

With SMSMB firmware

1. Before powering on the device, make sure that the "Init." and "GND" pins are properly connected.
2. Click Utility → “Event Parameter”. Set trigger condition according to the GTP-541M manual.
3. Remove the connection between "Init." and "GND" pins.
4. Trigger IO pins to send SMS.

Q16: Can I change the typesetting of variable SMS content?

A16: Using MODBUS table to write directly into the set point, you can fill in typesetting characters, such as line break, space, semicolon, etc., so that the text message can be arranged in different segments according to the user's intention.

Q17: After a period of time, the 4G light will be on without flashing.

A17: First, confirm whether the SIM card has a pin code set. If so, confirm whether the firmware is the new version. The new version solves the problem of communication failure caused by pin code.

Q18: Firmware update steps.

A18: The difference in firmware update steps is mainly divided into before V2.0.0 and after V2.0.0.

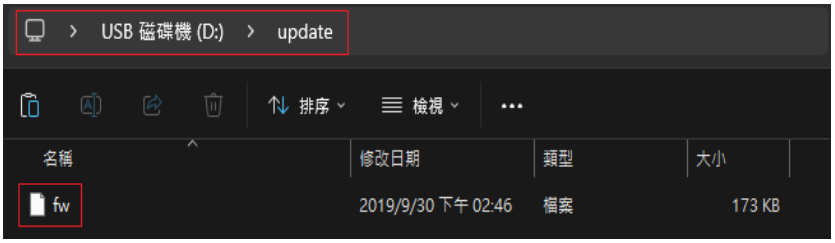
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➢ Firmware update steps before V2.0.0

1. After downloading the update file, unzip it and obtain the firmware.



2. Create an 'update' folder on the SD card, place the downloaded firmware inside, and rename the firmware to 'fw'.



3. After inserting the SD card, reboot the device, and the program will automatically update. Observe the STA and GPS indicator lights to determine the update result.
   - Success: Blink once every 0.1 seconds for a duration of 10 seconds.
   - Failure: Blink once every 0.9 seconds for a duration of 10 seconds.



4. During the update, the firmware and configuration files in the device will be backed up to the SD card and saved with the '.bck' extension.



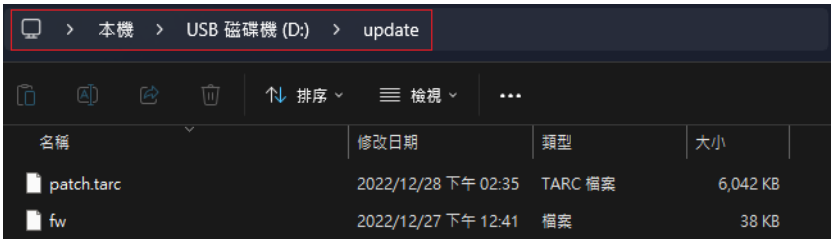
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➢ Firmware update steps after V2.0.0

1. After downloading the update file, unzip it to obtain the firmware and patches.



2. Create an 'update' folder on the SD card and place the downloaded firmware and patches inside.



3. After inserting the SD card, reboot the device, and the program will automatically update. Observe the STA and GPS indicator lights to determine the update result.

- Success: Blink once every 0.1 seconds for a duration of 10 seconds.
- Failure: Blink once every 0.9 seconds for a duration of 10 seconds.
- When updating from a version prior to V2.0.0 to a version after V2.0.0 for the first time, the device will reboot the system twice.



4. During the update, the firmware and configuration files in the device will be backed up to the SD card and saved with the '.bck' extension.



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