

GT-541

Quick Start Guide

Dec. 2011 Version 1.0

Package checklist

The package includes the following items:

- One GT-541 hardware module
- One GSM Antenna
- One RS-232 cable (CA-0910)
- One Quick Start Guide
- One software utility CD
- One screw driver

Note:

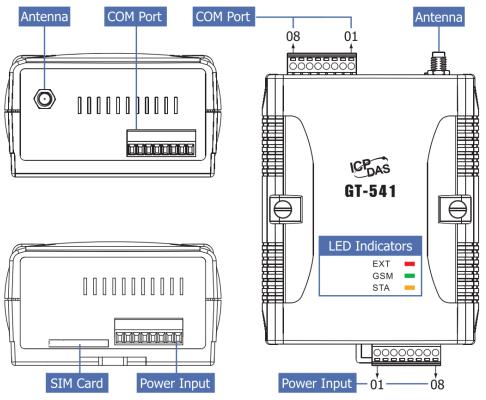
If any of these items are missed or damaged, contact the local distributors for more information. Save the shipping materials and cartons in case you want to ship in the future.



Appearance and pin assignments

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

	COM	Port
Terminal		Pin
No.		Assignment
COM2	01	DATA-
RS-485	02	DATA+
0014	03	TxD1
COM1	04	RxD1
RS-232	05	GND
N/A	06	N/A
Utility Port	07	TxD
RS-232	08	RxD



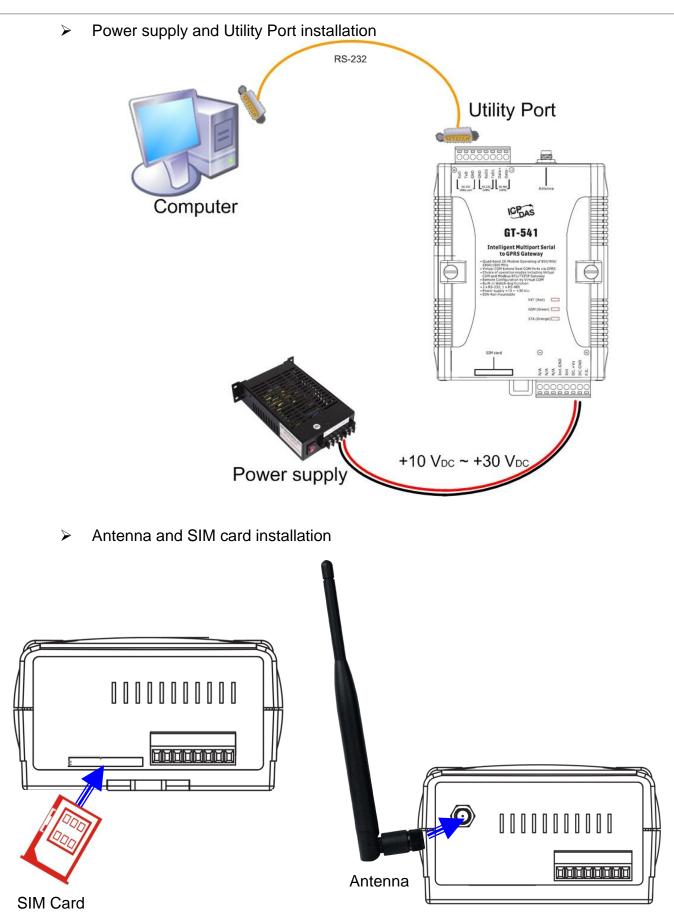
LED indicators

LED	Description		
EVT(rod)	On	The external Power is active	
EXT(red)	Off	The external Power is not active	
GSM(green)	Blinking (3 sec)	Modem normal	
	Off	Modem fail (or Blinking(not 3 sec)))
	Normal	GSM Fail	PIN code is wrong
STA (orange)	Blinking (1 sec)	Always on or off	Blinking per 50 ms

Installation

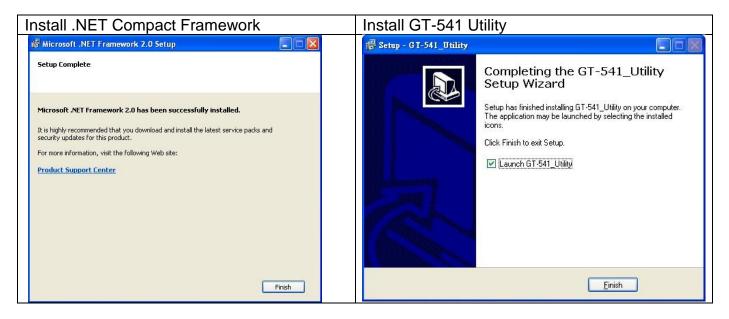
If users want to start GT-541 normally, it needs to follow these steps to install the GT-541 below:

- 1. Install the antenna
- 2. Plug in the normal SIM card (Before apply the SIM card, confirm its GPRS 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 $V_{DC} \sim +30 V_{DC}$)



• GT-541 Utility

It needs the runtime environment with .NET Framework 2.0 or above to execute the GT-541 Utility in the PC.



Operation

For setup your GT-541, you can follow these steps as following.

1. Select the COM port of the host PC and connect to the Utility port of GT-541



2. Click the "Connect" button to connect to the GT-541. If the connection is failed, check the COM port settings and wiring.

🌃 GT-541 Veri.(00 B5 2011/11/17
Project Ex	dt
COM1 🗸	Connect Oownlo

3. Click the "Upload" button to upload these parameters form the GT-541.

🌃 GT-541 V	eri.0	0 B5 2011/11/17
Project	Exi	t
COM5	~	✓Disconnect ↓ Download ▲ Upload ● System ↓

4. Set Parameters -- System :

■ Prject(none) System ■ COM Port

Parameters	Value	Description
Protocol	VxComm mode	Read Only
Address	1	Read Only
Remote Server	0.0.0.0	Type remote ser
Remote Server Port	11000	Type remote ser
GPRS user name	GUEST	This parameter
GPRS password	GUEST	This parameter
GPRS APN	INTERNET	This parameter
Virtual IP	127.0.11.22	This parameter
Module Alias	ICP DAS	Module's alias,
Heartbeat Time	10	Heartbeat Time
Com End Method	0	This parameter
Com End Param.	0	This parameter

Parameters	Description		
Protocol	GT-541 support proto	col. Read only	
Address	The address of the G	T-541. Read only	
Remote Server	The remote VxServer	server's IP or domai	n name
Remote Server Port	The remote VxServer	server's Port	
GPRS User name	GPRS user name		
GPRS password	GPRS password		
GPRS APN	GPRS APN (access p	point name)	
Virtual IP	Virtual IP. Range: 127 can't be the same w		254 · This parameter
Module Alias	Module Alias. (max. 7	character)	
Heartbeat Time	Heartbeat time. Rang	e: 10 sec. ~ 65535 se	ec.
Com End Method	Com End Method 0: Fixed Time. It is as complete a data when no data came at a fixed time 1: Fixed Length , It is as complete a data when the	Com End Param. 2 ms~ 65535 ms	Remark The GT-541 will transmit a data
Com End Param.	length of a data more than fixed length 2: Fixed end byte. It is as complete a data when receives the fixed end byte. Like "CR" (0x0d)	1 ~ 1000 0 ~ 255	when there is a data more than 1000 bytes.

5. Set Parameters – COM Port :

■ Prject(none) System	Parameters	Value	Description
	Port	COM1 (RS-232)	Read Only
COM Port	Data Bit	8	8 or 7
COM1 COM2	Stop Bit	1	1 or 2
001012	Parity Bit	none	none,odd,even
	Baudrate	9600	bps

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, 115200bps

6. Click the "Download" button to download these parameters to GT-541

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Project	Exit	
COM5	😪 🛩 Disconnect 🛛 🕹 Download 🖉 🛥 Upload 🖉 🗠 System 🔹	

• PIN/PUK Code

When the GT-541 starts and the STA LED is blanking per 50 ms, it is needed to input the PIN or PUK code in the GT-541. In this condition, click "System->Input PIN/PUK" button to set the PIN/PUK code.

Signal Quality
Reboot GT-541
Recover Default Settings
Firmware Version
Input PIN/PUK

(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.

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(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.

🔜 Entry SIM PIN / SIM PUK	
Times Remain to Input SIM PUK:	
10	
Please Input SIM PUK Code:	
Please Input New SIM PIN Code :	
OK OK	

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ltem	Trouble state	Solution
1	EXT LED is off	Please check the external power and wire connection.
2	STA is always on	 Check SIM card. Check Antenna. Check the GSM signal strength. Check your SIM Card that enabled GPRS function
3	GT-541 Utility can not connect to GT-541 device	Check COM port wire connection.
4	Don't have the user name, password or APN of GPRS	Confirm these parameters with your cell provider.
5	Can't connect to VxServer	 Check the remote server's IP Check the remote server's Port Check the Virtual IP

Technical Support

If you have problems about using the GT-541, please contact ICP DAS Product Support.

Email: Service@icpdas.com