Industrial Quad-band GPRS/GSM Modem

GTM-201-RS232

Quick Start Manual

Package Checklist

The package includes the following items:

- One GTM-201-RS232 hardware module
- One Quick Start Manual (this manual)
- One companion CD
- One RS-232 9-pin Male-Female D-sub cable (CA-0915)
- One GPRS antenna

Related Documents and Software Utilities

Documents

- User manual: GTM-201_User_Manual
- Quick Start Manual: GTM-201-RS232_QuickStart_Manual
- CD: \napdos\GPRS_GSM_Modem\GTM-201_Modem\Manual
- <u>Http://ftp.icpdas.com/pub/cd/usbcd/napdos/GPRS_GSM_Modem/</u> <u>GTM-201_Modem/Manual</u>

View of the GTM-201-RS232 Panel



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Pin Assignments



SW1-Op	peration Mode
	No
None	Handshaking
	3-wire RS-232
	Hardware
RTS/CTS	Handshaking
	9-wire RS-232

TxD 2 0 7 RxD 3 0 7 DSR 4 9 9	DTR
RxD 3 0 8 DSR 4 9 GND 5 0 9	CTS
DSR 4 9	RTS
GND 5 0	RI

Reset Wire Connection

Input Type	Reset State ON	Reset State OFF
Reset Input	RST- RST+	

Reset Input	
ON Voltage Level	+3.5 V _{DC} ~ +30 V _{DC}
OFF Voltage Level	+1 V _{DC} max.



Timing of restart Modem

Connect the GTM-201-RS232 to power and PC



SIM card and Antenna Installation



Quick Test (Hyper Terminal)

Step1. Start \rightarrow All Programs \rightarrow Accessories \rightarrow Communications \rightarrow Hyper Terminal \rightarrow Input new connection name \rightarrow Click "OK" \rightarrow Select your PC serial port \rightarrow Click "OK"

🎝 TEST - HyperTerminal
File Edit View Call Transfer Help
D 🖨 🗃 🖀 📫 🔂
Connect To
TEST
Enter details for the phone number that you want to dial:
Country/region: United States (1)
Area code: 07
Phone number
Connect üsing: COM1

Step3. File \rightarrow Properties \rightarrow Settings \rightarrow Click "ASCII Setup..." \rightarrow Select "Echo typed character locally" \rightarrow OK

🍣 TEST - HyperTerminal	
File Edit View Call Transfer Help	
0 🗳 👘 🖏 🚥 🏠 📸	
TEST Properties	×
Connect To Settings	
ASCII Setup	
ASCII Sending	
Echo typed characters locally	
Line delay: U milliseconds.	
Character delay: 0 milliseconds.	
ASCII Receiving	
E Append line feeds to incoming line ends	
Force incoming data to 7-bit ASCII	
✓ Wrap lines that exceed terminal width	
Conr OK Cancel	

Step2. Please refer to below settings

Bits per second	115200
Data bits	8
Parity	None
Stop bits	1
Flow control	None

Note: Please select "None" mode on the GTM-201-RS232 SW1 Hardware

Rie Edit	HyperTerminal New Call Transfer Help
0 🖨 🗧) 3 O B B
COM1	Properties ?
	Bits per second: 115200
	Data bits: 8
1	Parity: None
	Flow control: None
	Restore Defaults
	2. OK Cancel Apply

Step4. Input "AT" and press "Enter", then you will receive "AT OK"

🍫 TEST - Hyper Terminal
File Edit View Call Transfer Help
🖆 🗗 🖉 🖏 🖏
AATT OK

Create a new modem connection on PC

Step1. Control Panel \rightarrow Double-click "Phone and Modem Options" \rightarrow Modem

 \rightarrow Click "Add"



Step3. Select your COM Port to connect the modem \rightarrow Click "Next" \rightarrow Click"Finish"

Step2. Select "Standard Modem Types" → Select "Standard 19200 bps Modem" → Click "Next"

Install New Modem		ENT.
Select the manufacture have an installation disl	r and model of your modem. If your modem is no <, click Have Disk.	t listed, or if you
1		
Hanufacturer	Models	
(Standard Modern Types)	Standard 2400 bps Modem	
	Standard 14400 bps Modelin	
	Standard 19200 bps Modem	
This driver is digitally signed		Have Disk
Tell me why driver signing is	important	2

Step4. Control Panel \rightarrow Double-click "Phone and Modem Options" \rightarrow Modem

- → Select "Standard 19200 bps Modem"
- → Click "Properties"



Step5. Control Panel \rightarrow Double-click "Phone and Modem Options" \rightarrow Modem \rightarrow Select "Standard 19200 bps Modem" \rightarrow Click "Properties" \rightarrow Modem \rightarrow Maximum Port Speed \rightarrow 115200

Standard 40200 bps Modem Properties	×
Gel eral Modem Dignostics Advanced Driver	
Port: COM1	
Speaker volume	
Low High	
Maximum Pett Speed	
Dial Control	
Wait for dial tone before dialing	
OK Cancel	5

Step7. Diagnostics \rightarrow Query Modem \rightarrow Click "OK"

Note: If user queries modem that gets a Error, please try again.

Modem Information	
Field Value Hardware ID mdmge	n192
Command Respon:	se
	2
	2.
	Query Modem 2.
Logging Append to Log	Query Modem View log

Step6. Advanced \rightarrow Extra initialization commands:

Note: GPRS's APN must be provided from your Telecom. CO., LTD.

For example in Taiwan:

AT+CGDCONT=1,"IP","INTERNET" For example in China:

AT+CGDCONT=1,"IF	P"," CMNET"
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General	Modem	Diagnos cs	Advanced	Drie	r 🗌	
Extra	Settings				I	
Entre	Sector Description					
Extra	i initializati	on commands	5		-	
				-2		
		a	hange Defau	ılt Prefer	ences	
		a	hange Defau	ılt Prefer	ences	
		α	hange Defau	ılt Prefer	ences)	

Step8. Click "OK"

Phone and Modern Options	? 🗙
Dialing Rules Modems Advanced	
The following modems are installer	d:
Modem	Attached To
Standard 19200 bps Modem	COM1
Add	Remove Properties
ОК	Cancel Apply

Create a new dial-up on a PC

Step1. Control Panel → Network
Connections → Click "Create a new
connection" → Click "Next" → Select
"Connect to the Internet" → Click "Next"



Step3. Your GPRS's name \rightarrow Click "Next" \rightarrow Phone Number: \rightarrow Click "Next" Note: Phone Number must be provided from your Telecom. CO., LTD. For example in Taiwan: *99***1# Step2. Select "Connect using a dial-up modem" \rightarrow Click "Next"

New Connection Wizard
Internet Connection How do you want to connect to the Internet?
Connect using a dial-up modem This type of connection uses a modem and a regular or ISDN phone line.
Connect using a proadband connection that requires a user name and password
This is a high-speed connection using either a DSL or cable modem. Your ISP may refer to this type of connection as PPPoE.
Connect using a broadband connection that is always on This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.
<pre></pre>

Step4. GPRS's User name and GPRS's
Password → Click "Next" → Click
"Finish"

Note: GPRS's User name and GPRS's Password must be provided from your Telecom. CO., LTD.

New Connection Wizard	
Phone Number to Dial	New Connection Wizard
What is your ISP's phone number?	Internet Account Information You will need an account name and password to sign in to your Internet account.
Phone number:	Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)
You might need to include: "I'r or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.	Password:
	Confirm password:
	Use this account name and password when anyone connects to the Internation this compute.
\sim 2	Make this the default Internet connection
< Back Next > Cancel	Turn on Internet Connection Firewall for this connection 2.
	< Back Next > Cancel

Step5. Contral Panel \rightarrow Network Connections \rightarrow Click "Your GPRS's name" \rightarrow File \rightarrow Properties \rightarrow General \rightarrow Select "Standard 19200 bps Modem" \rightarrow Click "Configure"



Step6.Maximum speed(bps) \rightarrow Select "115200" \rightarrow

Enable hardware flow control (Note) \rightarrow Click "OK"

Note :

GTM-201-RS232 "RTS/CTS" mode	Please select "Enable hardware flow control"
GTM-201-USB	Please don't select "Enable hardware flow control"

Modem Configuration	? 🛛
Standard 19200 bps Modem (CDM1	1.
Maximum speed (bps):	·
Modem protocol	×
Enable hardware flow control	

Step8. If you connect to internet successfully, your toolbar have new logo



Technical Support

Step7. Contral Panel \rightarrow Network

GPRS's name" → Click "Dial"

*99***1#

Cancel

Dial:

Dial

Connections → Double-Click "Your

Properties

 1. ICP DAS Service : <u>service@icpdas.com</u>
 2. GTM-201-RS232 software Website: <u>http://www.icpdas.com./products/GSM_GPRS/wireless/GTM-201.htm</u>

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Help