Industrial Tri-band 3G Modem GTM-201-3GWA Series

User Manual

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Chapter 1 Introduction

The GTM-201-3GWA is a industrial Tri-band 3G and Quad-band GSM modem with RS-232 and USB interfaces that work at frequencies of UMTS 2100 / 1900 / 850 MHz and GSM 850 / 900 / 1800 / 1900 MHz. The modems utilize the 3G or GPRS network to transfer data. The features of GTM-201-3GWA allows a variety of PLC and PC applications to take advantage of SMS, 3G and GPRS connectivity. The voice interface allows the modem to be also applied to alarm systems with sounds.



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Chapter 2 Hardware Specifications

2.1 GTM-201-3GWA Series



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2.2 GTM-201-3GWA Specifications

Item	GTM-201-3GWA	GTM-201P-3GWA	
3G System			
Frequency Band	UMTS : 2100/1900/850 MHz		
Data Transmission	UMTS / HSDPA / HSUPA		
	Downlink transfer: Max. 7.2Mbps; Uplink transfer: Max 5.76Mbps		
GSM / GPRS System			
Frequency Band	GSM: 850/900/1800/1900 MHz		
GPRS connectivity	GPRS class 12/10; GPRS station class	В	
DATA GPRS	Downlink transfer: Max. 85.6 kbps; Up	link transfer: Max 42.8kbps	
CSD	Up to 14.4 kbps		
Coding Schemes	CS 1, CS 2, CS 3, CS 4		
SMS			
SMS	MT, MO, CB, Text and PDU mode		
GPS System			
Support Channels	-	32	
Protocol Support	-	NMEA0183	
Comm. Interface			
COM ports	TxD,RxD,GND		
COM Port Baud Rate	9600 bps ~ 115200 bps		
USB	USB 2.0 (high speed)		
	Windows 98 / 2000 / XP / Vista / 7		
USB Driver support	LinPAC (Linux kernel 2.6)		
LED Indicators			
Power	Red		
3G/GSM	Green		
Power			
Protection	Power reverse polarity protection		
Frame Ground Protection	ESD, Surge, EFT, Hi-Pot		
Required Supply Voltage	$+10 V_{DC} \sim +30 V_{DC}$		
Power Consumption	Idle: 25 mA @ 24 V_{DC} ; Data Link: 100 ~ 400 mA (peak) @ 24 V_{DC}		
Connection	8-Pin 3.5 mm Removable Terminal Block		
Reset Input			
Input Type	Isolated, 3750 Vrmc		
On Voltage Level	$+3.5 V_{DC} \sim +30 V_{DC}$		
Off Voltage Level	$+1 V_{DC}$ max.		
Input Impedance	$3 \text{ k}\Omega \cdot 0.25 \text{ W}$		
Mechanical			
Casing	Plastic		
Flammability	UL 94V-0 materials		
Dimensions (W x L x H)	33 mm x 87 mm x 107 mm		
Installation	DIN-Rail		
Environment	· ·		
Operation Temp.	-25°C to 75°C		
Storage Temp	-40°C to 80°C		
Humidity	5~95% non-condensing		

Note1: The default baud rate is 115200 bps.



3.1 Application 1



3.2 Application 2



3.3 Application 3



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Chapter 4 Hardware Appearance

4.1 View of the GTM-201-3GWA Panel



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4.2 Pin Assignments



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4.3 Hardware Dimensions

GTM-201-3GWA / GTM-201P-3GWA



Unit : mm

4.4 LED indicators



There are two LED indicators to help users to judge the various conditions of GTM-201-3GWA. The description is as follows :

PWR(Red) : The PWR LED can indicate the status of Power module.

Power normal	Power fail
Always on	Always off

3G (Green) : The modem LED can indicate the status of GSM module.

Modem normal	Modem fail	Data transmit
Blanking (800 ms)	Off On	Blanking(200 ms)

Chapter 5 Hardware Wire Connection

5.1 Reset Wire Connection

Reset Wire Connection

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

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



5.2 3G/GPS Installation

> SIM card Installation



> 3G/GPS Antenna Installation



5.3 Quick Test

Hardware installation :



GTM-201-3GWA

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Software Installation: (Hyper Terminal)

Step1. Start \rightarrow All Programs \rightarrow Accessories \rightarrow Communications \rightarrow Hyper Terminal



Step2. If these is a pop-up form that "Default Telent Program?", please select "Yes"

Default	Felnet Program? 🛛 🛛 🛜 🔀
<u>.</u>	We recommend that you make HyperTerminal your default telnet program. Do you want to do this?
	Yes No

Step3. Input new connection name \rightarrow Click "OK"

Rew Connection - HyperTerminal
File Edit View Call Transfer Help
D 🖨 🚳 🖇 🕒 📸
- Connection Description
New Connection Enter a name and choose an icon for the connection: Name: TEST Icon: Icon:
OK Cancel

Step4. Select your PC serial port → Click "OK"



Step5. Please refer to the following settings

Bits per second	115200
Data bits	8
Parity	None
Stop bits	1
Flow control	None <mark>(Note)</mark>

ile Edit '	riew Call Transfe 3 🌋 🕮 🏠	er Help
COM1 Port 9	Properties Settings	2
6	Bits per second	115200
	Data bits:	8
	Parity:	None
1.	Stop bits:	1
	Flow control:	None 🗸
		Restore Defaults
	2.	K Cancel Apply

Step6. File \rightarrow Properties



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Step7. Settings → Click "ASCII Setup…"	
🍫 TEST - HyperTerminal	
File Edit View Call Transfer Help	
D 🖨 📨 🖉 📫 🔂	
TEST Properties	
Connect To Settings	
Function, arrow, and ctrl keys act as	
Terminal keys	
Backspace key sends	
Emulation:	
Auto detect Terminal Setup	
Telnet terminal ID: ANSI	
Backscroll buffer lines: 500	
Play sound when connecting or disconnecting	
Input Translation ASCII Setup 2.	
Cont	
OK Cancel	

Step8. 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
Character delay: 0 milliseconds.
ASCII Receiving
E Append line feeds to incoming line ends
Force incoming data to 7-bit ASCII
Conr OK Cancel

Step9. Input "AT" and press "Enter", then you will receive "AT OK"

🌯 TEST - Hyper Terminal
File Edit View Call Transfer Help
D 🖨 🍘 🖧 🐵 🏝 🖸
AATT OK

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Chapter 6 GPRS connection

6.1 XPAC – 8000 (Microsoft Windows XP)

6.1.1.1 GTM-201-3GWA Hardware requirement

- 1) GTM-201-3GWA (Please install USB driver first)
- 2) XPAC-8000
- 3) USB Cable



GTM-201-3GWA

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6.1.2.1 Create a new modem connection

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



Step2. Set the area code for the first time \rightarrow Click "OK"

Location Information	? 🛛	<
	Before you can make any phone or modem connections, Windows needs the following information about your current location. What country/region are you in now?	
	United States	
	If you dial a number to access an outside line, what is it?	
	The phone system at this location uses:	
	Tone dialing C Pulse dialing C DK Cancel	

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Step3. Control Panel → Double-click "Phone and Modern Options" → Modern → Click "Add"

Modem	Attache	d To

Step4. Select "Don't detect my modem; I will select it from a list." → Click "Next"



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Select "Standard Modem Types" → Select "Standard 19200 bps Modem" Step5.

→ Click "Next"



Step6. Select your COM Port to connect to the modem → Click "Next"



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Step7. Click "Finish" to finish the install new modem.

Add Hardware Wizard	
Install New Modem Modem installation is	finished!
	Your modem has been set up successfully. If you want to change these settings, double-click the Phone and Modem Options icon in Control Panel, click the Modems tab, select this modem, and then click Properties.
	K Back Finish Cancel

Step8. Control Panel → Double-click "Phone and Modern Options" → Modern → Select "Standard 19200 bps Modern" → Click "Properties"

Phone and Modern Options	21
The following modems are installed:	1
Modem Att Standard 19200 bps Modem COI	ache Io M1
	2.
Add Remove	Properties

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Step9. Control Panel → Double-click "Phone and Modern Options" → Modern → Select "Standard 19200 bps Modern" → Click "Properties" → Modern → Maximum Port Speed → 115200

ort: C Sneak	DM1	1.		
- Poda	Low	P	— High	
Maxim	um Peri Op	eet		
(115200	1	~	
Dial Ci	ntrol			
	Wait	for dial tone be	efore dialing	

Step10. 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,"IP"," CMNET"



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Step11. Diagnostics \rightarrow Query Modem \rightarrow Click "OK" Note: If user queries modem that gets a Error, Please try again.

an dar d General	19200 Motem	bps Mode Diagnostics	m Propert	ies Driver		? >
Modem	nformatio	n	-1		1	
Field	1	/alue			1	
Comma	and Re	dmgen192 sponse				
Logging			(Query 1	Modem) ^{2.}
	end to Lo	g		View	log	_
			1	_		3

Step12. Click "OK"



6.1.2.2 Create a new dial-up and networking connection

Step1. Control Panel \rightarrow Network Connections \rightarrow Click "Create a new connection"

Setwork Connections		_ 🗆 🗙
File Edit View Favorites Tools	Advanced Help	
🚱 Back 👻 🕥 - 🎓 🔎 Se	earch 📂 Folders 📰 -	
Addr 55 🔊 Network Connections		💌 ラ Go
Network Tasks Create a new connection Create a new co	LAN or High-Speed Internet	
See Also 🛞		
Network Troubleshooter		
Other Places 🛞		
 Control Panel My Network Places My Documents My Computer 		
Details 🛞		
System Folder		

Step2. Click "Next"



Step3. Select "Connect to the Internet" \rightarrow Click "Next"

New Connection Wizard
Network Connection Type Image: Conne Image: Connection Type
© Connect to the Internet Connect to the Internet so you can prowse the Web and read email.
O Connect to the network at my workplace
Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location.
Set up a home or small office network
Connect to an existing home or small office network or set up a new one.
O Set up an advanced connection
Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.
2.
< Back Next > Cancel

Step4. 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 moder 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.
O 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.
~2
< Back Next > Cancel

Step5. ISP Name \rightarrow Your GPRS's name \rightarrow Clic	Click "Next"
---	--------------

New Connection Wizard	
Connection Name What is the name of the serv	vice that provides your Internet connection?
Type the name of your ISP in	the following box.
ISPiname	1.
The name you type here will b	e the name of the connection you are creating.
	2.
	< Back Next > Cancel

Step6. Phone Number: \rightarrow Click "Next"

Note: Phone Number must be provided from your Telecom. CO., LTD. For example in Taiwan: *99***1#

New Connection Wizard
Phone Number to Dial What is your ISP's phone number?
Type the phone number: Phone number: Mey might need to include a finance of 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.
<pre></pre>

Step7. GPRS's User name and GPRS's Password → Click "Next"

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

CO., LTD.

New Connection Wizard
Internet Account Information You will need an account name and password to sign in to your Internet account.
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.) "ver name: Password: Confirm password: Observices Observices Wake this the default Internet connection Image: Turn on Internet Connection Firewall for this connection
< Back Next > Cancel

Step8. Click "Finish"



Step9. Control Panel \rightarrow Network Connections \rightarrow Click "Your GPRS's name" \rightarrow File \rightarrow Properties



Step10. General → Select"Standard 19200 bps Modem" → Click "Configure"

nect using: Modem - Standard 19.	200 bps Modem (COM1)
ione number srea code: Phone	e number:
Use dialing rules	Dialing Rules

Step11. Maximum speed(bps) → Select "115200" → disable "Enable hardware flow control "(Note) → Click "OK"

3		
Maximum speed (bps):	115200	
Modem protocol 2.		
Hardware features		
Enable hardware flo	w control	
Enable modern com	eentrol pression	
	Dicasion	
Show terminal window	3	3.

Note: Please don't select "Enable hardware flow control"

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Step12. Click "OK"	
	🕒 Dial-up Connection Properties 🛛 😨 🔀
	General Options Security Networking Advanced
	Connect using:
	Modem - Standard 19200 bps Modem (COM1)
	Configure
	Phone number
	Area code: Phone number:
	Alternates
	Country/region code:
	Use dialing rules Dialing Rules
	· · · · · · · · · · · · · · · · · · ·
	Show icon in notification area when connected
	OK Cancel

Step13. Control Panel → Network Connections → Double-Click "Your GPRS's name"



User name: guest Password: ••••• Save this user name and password for the following users: Me only Anyone who uses this computer		
Save this user name and password for the following users: Anyone who uses this computer	User name:	guest
Anyone who uses this computer	Password:	user name and password for the following users:
Dial: *99***1#	O Anyone Dial:	who uses this computer

Step15. If you connect to internet successfully, your toolbar have new logo

	49,0	3:49 PM
--	------	---------

Step16. You can Double-Click the new logo \rightarrow Click "Details" \rightarrow Get your IP address

Device Type modem ierver type PPP iransports TCP/IP iuthentication PAP iompression (none) IPP multilink framing Off ierver IP address 10.0.0.1 Ilient IP address 114.137.175.2		Standard 19200 bps Modem #2
ransports TCP/IP suthentication PAP compression (none) 'PP multilink framing Off erver IP address 18.8.8.1 Slient IP address 114.137.175.2	evice Type erver tune	modem PPP
Authentication PAP Compression (none) PP multilink framing Off erver IP address 10.0.0.1 Ilient IP address 11.1.137.175.2	ransports	TCP/IP
PP multilink framing Off ierver IP address 114.137.175.2	uthentication	PAP (none)
erver IP address 18.8.8.1 lient IP address 114.137.175.2	PP multilink framing	Off
lient IP address (114.137.175.2)	erver IP address 🍡	10.0.0.1
	lient IP address 🛛 🌔	114.137.175.2

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Step14. Click "Dial"

6.2 LinPAC - 8000 (Linux)

6.2.1.1 GTM-201-3GWA Hardware requirement

- 1) GTM-201-3GWA
- 2) LinPAC-8000
- 3) USB Cable



GTM-201-3GWA

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6.2.2.1 How to dial-up

Step1. Download the last version OS, and update it.

LinPAC-8x4x: ftp://ftp.icpdas.com/pub/cd/linpac/napdos/lp-8x4x/os_image/

LinPAC-5x3x: <u>ftp://ftp.icpdas.com/pub/cd/linpac/napdos/lp-5000/lp-5x3x/OS_image/</u>

LinPAC-5x4x: <u>ftp://ftp.icpdas.com/pub/cd/linpac/napdos/lp-5000/lp-5x3x/OS_image/</u>

PDS-8x2: ftp://ftp.icpdas.com/pub/cd/linpac/napdos/pds-8x2/os_image/

Step2. Connect the COM1 port of Linpac with the COM port of the pc.

Step3. Open HyperTerminal in 115200/8/n/1

Step4. Power on Linpac (please don't connect the ethernet)

Step5. Login in root, and input "login" (default username = root, password = root).

COM1,115200,None,8,1

```
icewm-session: using /root/.icewm for private configuration files
icewmbg: using /root/.icewm for private configuration files
IceWM: using /root/.icewm for private configuration files
icewmtray: using /root/.icewm for private configuration files
# login
linpac-5000 login: root
Password:
Distributor ID: ICP DAS
Description:
                    LinPAC-5x4x
Release OS:
                    1.1
Release bootloader: 1.1
Codename:
                    PACLNX 0.90
Mar 4 14:53:04 login[1129]: root login on 'console'
-sh: can't access tty; job control turned off
installed XW-boards list
slot 1 ... XW-0
#
#
```

Step6. Install driver by the command: insmod /lib/modules/2.6.19/sim5218.ko

COM1,115200,None,8,1	<u>_ ×</u>
# insmod /lib/modules/2.6.19/sim5218.ko	
drivers/usb/serial/usb-serial.c: USB Serial support registered for SIM	5218
SIM5218 1-1:1.0: SIM5218 converter detected	
usb 1-1: SIM5218 converter now attached to ttyUSBO	
SIM5218 1-1:1.1: SIM5218 converter detected	
usb 1-1: SIM5218 converter now attached to ttyUSB1	
SIM5218 1-1:1.2: SIM5218 converter detected	
usb 1-1: SIM5218 converter now attached to ttyUSB2	
SIM5218 1-1:1.3: SIM5218 converter detected	
usb 1-1: SIM5218 converter now attached to ttyUSB3	
SIM5218 1-1:1.4: SIM5218 converter detected	
usb 1-1: SIM5218 converter now attached to ttyUSB4	
usbcore: registered new interface driver SIM5218	
#	T
	•

Step7. Dial-up: pppd call 3g &

C	:OM1,115200,None,8,1	
Ī	# pppd call 3g &	
	# send (^M)	
	expect (OK)	
	112 172 [°] M [°] M	
"	DKOK got it	
	send (ATI^M)	
	expect (υκ) ^Μ	
	ATI ATI^M^M	
	Manufacturer: SIMCOM INCORPORATED Manufacturer: SIMCOM INCORPORATED^M	
	Model: SINCOM_SIN5218A	
	Revision: 240150B14S1M5218A	
	Revision: 240150B14S1N5218A M SIM5218A_240150_100422_V1.24	
	SIM5218A_240150_100422_U1.24^M QCN:	
	QCN: ^M IMEI: 355841030242927	
	INEI: 355841030242927 [^] M +6640' +665M +05 +65	
	+GCAP: +CGSM,+DS,+ES ^M	
	^м ОКОК	
	got it	
	expect (OK)	
	^M AT+COPS?	
	AT+COPS?^M^M +COPS: 0 0 "Chunghwa Telecom" 2	
	+COPS: 0,0,"Chunghwa Telecom",2 [^] M	
	^м окок	
	got it send (AT+CCDCONT=1 "IP" "internet"^M)	
	expect (OK)	
	^M AT+CGDCONT=1,"IP","internet"	
	AT+CGDCONT=1,"IP","internet"^M^M OKOK	
	got it	
	sena (HTD*99# M) expect (CONNECT)	
	^M ATD∗99#	
	ATD*99#^M^M CONNECTCONNECT	
	got it	
	send ("M) Serial connection established.	
	using channel 1 Using interface ppp0	
	Connect: ppp0 <> /dev/ttyUSB3 Warning - secret file /etc/nnn/nan-secrets has world and/or group access	
	sent [LCP ConfReq id=0x1 <asyncmap 0x0=""> <magic 0xc51edf02=""> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></magic></asyncmap>	
	No auth is possible	
	sent [LCP ConfRej 1d=0x4 {auth chap MD5>] rcvd [LCP ConfAck id=0x1 {asyncmap 0x0> {magic 0xc51edf02> {pcomp> {accomp>]	
	rcva [Ltr ton+Keq id=Wx5 <asyncmap wx0=""> <magic 0x1c4fe14=""> <pcomp> <accomp>] sent [LCP ConfAck id=0x5 <asyncmap 0x0=""> <magic 0x1c4fe14=""> <pcomp> <accomp>]</accomp></pcomp></magic></asyncmap></accomp></pcomp></magic></asyncmap>	
	sent [LCP EchoReq id=0x0 magic=0xc51edf02] sent [CCP ConfReq id=0x1 <deflate 15=""> <deflate(old#) 15=""> <bsd 15="" v1="">]</bsd></deflate(old#)></deflate>	
	sent [IPCP ConfReq id=0x1 <compress 01="" 0f="" vj=""> <addr 0.0.0.0=""> <ms-dns1 0.0.0.0=""> <ms-dns3 0.0.0.0="">] rcvd [LCP DiscReg id=0x6 magic=0x1c4fe14]</ms-dns3></ms-dns1></addr></compress>	
	rcud [LCP EchoRep id=0x0 magic=0x1c4fe14 01 c4 fe 14] rcud [LCP ProtRei id=0x7 80 fd 01 01 00 0f 1a 04 78 00 18 04 78 00 15 03 2f]	
	rcvd [IPCP ConfNak id=0x1 <ms-dns1 10.11.12.13=""> <ms-dns3 10.11.12.14=""> <ms-wins 10.11.12.13=""> <ms-win 10 11 12 14>]</ms-win </ms-wins></ms-dns3></ms-dns1>	าร
	sent [IPCP ConfReq id=0x2 <compress 01="" 0f="" vj=""> <addr 0.0.0.0=""> <ms-dns1 10.11.12.13=""> <ms-dns3 10.11.*<="" td=""><td>12</td></ms-dns3></ms-dns1></addr></compress>	12
	sent [IPCP ConfNak id=0x2 <addr 0.0.0.0="">]</addr>	
	rcvu [1rvr cumrne] 10=0x2 (compress v) 0+ 01/] sent [IPCP ConfReq id=0x3 (addr 0.0.0.0) (ms-dns1 10.11.12.13) (ms-dns3 10.11.12.14)]	
	rcvd [IPCP ConfReq 1d=8x3] sent [IPCP ConfAck id=8x3]	
	rcvd [IPCP ConfNak id=0x3 <addr 111.81.57.21=""> <ms-dns1 168.95.1.1=""> <ms-dns3 168.95.192.1="">] sent [IPCP ConfReq id=0x4 <addr 111.81.57.21=""> <ms-dns1 168.95.1.1=""> <ms-dns3 168.95.192.1="">]</ms-dns3></ms-dns1></addr></ms-dns3></ms-dns1></addr>	
	rcvd [IPCP ConfAck id=8x4 <addr 111.81.57.21=""> <ms-dns1 168.95.1.1=""> <ms-dns3 168.95.192.1="">] Could not determine remote IP address: defaulting to 10.64.64.64</ms-dns3></ms-dns1></addr>	
	local IP address 111.81.57.21	
	primary DNS address 168.95.1.1	
	Script /etc/ppp/ip-up started (pid 1216)	
	აστιμε /etc/ppp/ip-up finisnea (piα 1210), status = 0x0 	
	#	
n Li		

Step8. check the status of ppp : ifconfig

COM1,115200,None,8,1	<u> </u>
#	^
# ifconfig	
eth0 Link encap:Ethernet HWaddr 00:0D:E0:AB:CD:33	
UP BROADCAST RUNNING MULTICAST MT0:1500 Metric:1	
RX packets:0 errors:0 dropped:0 overruns:0 frame:0	
TX packets:3 errors:0 dropped:0 overruns:0 carrier:0	
DX hydrox 0 (0.0 P) TX hydrox 1770 (1.7 KiP)	
Interrupt/11 Base address0v8000	
Interrupt:41 Dase address.0x0000	
eth1 Link encap:Ethernet_HWaddr 00:0D:E0:AB:CD:44	
UP BROADCAST RUNNING MULTICAST_MTU:1500_Metric:1	
RX packets:0 errors:0 dropped:0 overruns:0 frame:0	
TX packets:3 errors:0 dropped:0 overruns:0 carrier:0	
collisions:0 txqueuelen:1000	
RX bytes:0 (0.0 B) TX bytes:1770 (1.7 KiB)	
Interrupt:114 Base address:0xc000	
lo Link encap:Local Loopback	
inet addr:127.0.0.1 Mask:255.0.0.0	
UP LOOPBACK RUNNING MTU:16436 Metric:1	
RX packets:0 errors:0 dropped:0 overruns:0 frame:0	
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0	
collisions:0 txqueuelen:0	
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)	
ppp0 Link encap:Point-to-Point Protocol	
inet addr:111.81.57.21 P-t-P:10.64.64.64 Mask:255.255.255.255	
UP POINTOPOINT RUNNING NOARP MULTICAST MTU: 1500 Metric: 1	1
RX packets:8 errors:0 dropped:0 overruns:0 frame:0	
TX packets:7 errors:0 dropped:0 overruns:0 carrier:0	
collisions:0 txqueuelen:3	
RX bytes:186 (186.0 B) TX bytes:129 (129.0 B)	
#	
J	

_ | × |

Step9. setting route: sh /etc/ppp/scripts/3g.route Step10. check router's setting: route Step11. test 3G/GPRS network: ftp ftp.speed .hinet.net

COM1,115200,None,8,1

```
# sh /etc/ppp/scripts/3g.route
# route
Kernel IP routing table
Destination Gateway
                               Genmask
                                              Flags Metric Ref
                                                                  Use Iface
                               255.255.255.255 UH 0
10.64.64.64
               *
                                                           0
                                                                    0 ppp0
default
              10.64.64.64
                               0.0.0.0 UG
                                                     0
                                                            0
                                                                     0 ppp0
#
# ftp ftp.speed.hinet.net
Connected to ftp.speed.hinet.net.
220- Welcome to HiNet SpeedTest FTP site.
220- (ftp.speed.hinet.net)
220
Name (ftp.speed.hinet.net:root): ftp
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
ftp>
ftp> by
221 Goodbye.
4
•
```

Chapter 7 USB driver installation

7.1 XPAC – 8000 (Microsoft Windows XP)

7.1.1 Install USB driver

Step1. Double Click GTM-201-3GWA driver "GTM-201-3GWA.exe" to install the driver. Step2. Click "Next".



Step3. Click "Next"

😼 Setup - GTM-201-3GWA	
Select Destination Location Where should GTM-201-3GWA be installed?	
Setup will install GTM-201-3GWA into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\ICPDAS\GTM-201-3GWA Brows	:e
At least 4.3 MB of free disk space is required.	
< Back Next >	Cancel

Step4. Select "Install"



Step5. Click "Finish"



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Step6. Connect the USB of GTM-201-3GWA with the PC

Step7. The "Found New Hardware Wizard" window for "GTM-201-3GWA Diagnostics" will pop-out. Please click "Next".



Step7-1. Click "Finish" if you got a success message.

Found New Hardware Wizard				
	Completing the Found New Hardware Wizard			
	The wizard has finished installing the software for:			
	GTM-201-3GWA Diagnostics			
	Click Finish to close the wizard.			
	< Back Finish Cancel			

Step7-2. Click "Back" if you got a fail message, and then choose "Install from a list or specific location" in all install steps.

Found New Hardware Wizard				
	Welcome to the Found New Hardware Wizard			
	This wizard helps you install software for:			
	GTM-201-3GWA Diagnostics			
	If your hardware came with an installation CD or floppy disk, insert it now.			
	What do you want the wizard to do?			
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced) 			
	Click Next to continue.			
	< Back Next > Cancel			

Step7-3. Click "Browse" to choose your installing folder, and Click "Next".



Step8. The "Found New Hardware Wizard" window for "GTM-201-3GWA NMEA" will pop-out. Please click "Next".

Found New Hardware Wizard				
Welcome to the Found New Hardware Wizard				
	This wizard helps you install software for:			
	GTM-201-3GWA NMEA			
	If your hardware came with an installation CD or floppy disk, insert it now.			
	What do you want the wizard to do?			
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced) 			
	Click Next to continue.			
	< Back Next > Cancel			

Step9. The "Found New Hardware Wizard" window for "GTM-201-3GWA AT Port" will pop-out. Please click "Next".



Step10. The "Found New Hardware Wizard" window for "GTM-201-3GWA Modem" will pop-out. Please click "Next".



Step11. The "Found New Hardware Wizard" window for "GTM-201-3GWA Wireless HS-USB Ethernet Adapter" will pop-out. Please click "Next".



Step12. Finish the all install steps. Please open "Device manager", and you will found new 5 items in your computer.

The "GTM-201-3GWA AT Port" is a "AT command port" for GSM library.

The "GTM-201-3GWA Modem" is a Modem for dial-up to 3G/GPRS Network.



7.2 LinPAC - 8000 (Linux)

Please refer to chapter 6.2

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Revised Note:

Version	Ву	Date	Description
1.00	Malo	2011/04/18	Release

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