工業級三頻 3G 模組

GTM-201-3GWA 系列

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目錄	
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1. 簡	介	1
2. 硬	建體介紹	2
2.1	GTM-201-3GWA 系列產品照	2
2.2	GTM-201-3GWA 規格	3
3. 應	用架構	4
3.1	應用架構 1	4
3.2	應用架構 2	4
3.3	應用架構 3	5
4. 硬	體外觀	6
4.1	操控板	6
4.2	腳位圖與說明	6
4.3	尺寸規格(單位:mm)	7
4.4	LED 指示燈	7
5. 硬	體接線	8
5.1	重置系統接線法	8
5.2	3G/GPS 安裝	9
5.3	快速測試	10
6. GP	PS 連線	16
6.1	XPAC – 8000 (Microsoft Windows XP)	16
6.2	LinPAC – 8000 (Linux)	
7. US	SB 驅動安裝	
7.1	XPAC – 8000 (Microsoft Windows XP)	
7.2	LinPAC – 8000 (Linux)	44

1. 简介

GTM-201-3GWA 是三頻 3G(UMTS 2100 / 1900 / 850 MHz)和四頻
GSM(GSM 850 / 900 / 1800 / 1900 MHz)工用模組,提供 RS-232 和
USB 介面。該模組使用 3G 或 GPRS 網絡傳輸資料。其特色為支援多種 PLC 和 PC 利用 SMS、3G、GPRS 網絡相互連結,並提供
語言介面以利應用於語音警示系統。



2. 硬體介紹



2.1 GTM-201-3GWA 系列產品照

2.2 GTM-201-3GWA 規格

Item	GTM-201-3GWA	GTM-201P-3GWA			
3G 系統	3G 系統				
頻道	UMTS: 2100/1900/850 MHz				
咨拟使龄	UMTS / HSDPA / HSUPA				
貝 竹 仔 剏	Downlink transfer: Max. 7.2Mbps; Up	link transfer: Max 5.76Mbps			
GSM / GPRS 系統					
頻道	GSM : 850/900/1800/1900 MHz				
GPRS 連結	GPRS class 12/10; GPRS station class	В			
DATA GPRS	Downlink transfer: Max. 85.6 kbps; Uplink transfer: Max 42.8kbps				
CSD	Up to 14.4 kbps				
编碼	CS 1, CS 2, CS 3, CS 4				
SMS					
SMS	MT, MO, CB, Text and PDU mode				
GPS 系統					
支援頻道數	-	32			
支援協議	-	NMEA 0183			
Comm. 介面					
COM ports	TxD,RxD,GND				
COM Port Baud Rate	9600 bps ~ 115200 bps				
USB	USB 2.0 (high speed)				
USB Driver support	Windows 98 / 2000 / XP / Vista / 7 LinPAC (Linux kernel 2.6)				
LED 指示燈					
電源	Red				
3G/GSM	Green				
電源					
保護	Power reverse polarity protection (極性	生反接保護)			
接地保護框架	ESD, Surge, EFT, Hi-Pot				
電源輸入範圍	$+10 V_{DC}$ ~ $+30 V_{DC}$	$+10 V_{DC} \sim +30 V_{DC}$			
功耗	Idle: 25 mA @ 24 V_{DC} ; Data Link: 100 ~ 400 mA (peak) @ 24 V_{DC}				
連接器	8-Pin 3.5 mm Removable Terminal Blo	ock			
重置輸入					
輸入類型	Isolated, 3750 V _{rms}				
開啟電壓	$+3.5 V_{DC} \sim +30 V_{DC}$				
	$+1 V_{DC}$ max.				
輸入電阻	3 kΩ, 0.25W				
機體					
外殼	Plastic				
	UL 94V-0 materials				
尺寸 (WxLxH)	33 mm x 87 mm x 107 mm				
 導軌	DIN-Rail				
環境	·				
操作温度	-25°C to 75°C				
存放温度	-40°C to 80°C				
濕度	5~95% non-condensing				
	U U				

備註:原廠預設鮑率為 11522bps.

3. 應用架構

3.1 應用架構1



3.2 應用架構 2



3.3 應用架構 3



4. 硬體外觀

4.1 面板圖



4.2 腳位圖與說明



4.3 尺寸規格(單位:mm)



4.4 LED 指示燈



有兩個 LED 指示燈幫助使用者了解機況,其亮燈訊號說明如

下:

> 電源指示燈(紅色):顯示電源運轉狀況。

電源正常	電源異常
恆亮	恆滅

> 3G指示燈(綠色):顯示 3G 運轉狀況。

模組正常運作	模組運作異常	資料傳輸中	
每800豪秒閃爍一次	恆滅或恆亮	每200豪秒閃爍一次	
百7/47			

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5. 硬體接線

5.1 重置系統接線法



重置輸入	
開啟電壓	+3.5 VDC ~ +30 VDC
關閉電壓	+1 VDC max.



Timing of restarting the modem

5.2 3G/GPS 安裝

▹ SIM 卡安裝



▹ 3G/GPS 天線安裝



5.3 快速測試

> 硬體安裝



GTM-201-3GWA

軟體安裝

步驟 1. Start \rightarrow All Programs \rightarrow Accessories \rightarrow

Communications \rightarrow Hyper Terminal



步驟 2. 如果彈跳出對話視窗 "Default Telnet Program?",

請點選"Yes"。



步驟 3. 輸入新連結名稱,按"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 1. Icon: Icon: ICON: I

步驟4. 選擇電腦串列埠,按"OK"。

🇞 TEST - Hyper	Terminal
File Edit View C	all Transfer Help
06 93	
Connect To	? 🛛
TEST	
Enter details fo	r the phone number that you want to dial:
Country/region	United States (1)
Area code:	07
Phone number	
Connect using:	Сом1
	2. OK Cancel

頁 12/47

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

步驟 5. 請參考下列設定值:

COM1	Properties		?
Port S	Settings		-
	Bits per second:	115200	
	Data bits:	8	~
	Parity:	None	~
1.	Stop bits:	1	~
	Flow control:	None	•

步驟 6. File \rightarrow Properties



TEST Properties	
Connect To Settings	1.
Function, arrow, and	d ctrl keys act as
 Terminal keys 	🔘 Windows keys
 Backspace key sen 	ods
⊙ Ctrl+H ◯ De	el 🔘 Ctrl+H, Space, Ctrl+H
Emulation	
Auto detect	Terminal Setur
Telnet terminal ID:	ANSI
Backscroll buffer lines:	500
Play sound when	connectina or disconnectina
Input Translation	ASCILSetup

步驟 7. Settings →點 "ASCII Setup…"

步驟 8. 勾選"Echo typed character locally" → OK

Kile Tile	EST - HyperTerminal Edit View Call Transfer Help	
	é @ \$ ®C <mark>`</mark> B	
Π	TEST Properties ?>	<
	Connect To Settings	
	ASCII Setup	
	ASCII Sending	
	Cand line and mith line feede	
	Echo typed characters locally	
	E Line delay: U milliseconds.	
	ASCII Receiving	
	E Append line feeds to incoming line ends	
	Force incoming data to 7-bit ASCII	
Ŀ	✓ Wrap lines that exceed terminal width	
<		
Conr		

頁 14 / 47

步驟 9. 輸入 "AT" 按 "Enter"即可接收到"AT OK"。



6. GPS 連線

6.1 XPAC – 8000 (Microsoft Windows XP)

6.1.1 GTM-201-3GWA 硬體需求

(1)GTM-201-3GWA (請先安裝 USB 驅動)

- (2) XPAC-8000
- (3) USB Cable



GTM-201-3GWA

6.1.2 建立新數據機連結

步驟 1. Control Panel →點兩下 "Phone and Modem

Options"



步驟 2.設定區碼→點 "OK"



步驟 3. Control Panel → 點兩下 "Phone and Modem

Options" → Modem → 點 "Add"



步驟 4. 勾選 "Don't detect my modem; I will select it

from a list." \rightarrow 點 "Next"



頁 18/47

步驟 5. 左邊欄位選取 "Standard Modem Types" → 右邊

欄位選取"Standard 19200 bps Modem"→點"Next"



步驟 6. 選取連接數據機的 COM Port→ 點 "Next"



頁 19/47

步驟 7. 點 "Finish"完成安裝



步驟 8. Control Panel→點兩下 "Phone and Modem

Options"→ Modem→選取"Standard 19200 bps

Modem"→點 "Properties"



頁 20/47

步驟 9. Control Panel→點兩下 "Phone and Modem

Options"→ Modem→選取 "Standard 19200 bps

Modem"→點 "Properties"→ Modem→於 Maximum Port

Speed 欄位選取數值 115200

Standard 40200 bps Modem Properties	? 🗙
General Modem Dignostics Advanced Driver	
Port: COM1	
Speaker volume	
Low High	
i i	
Maximum Perfugeed	
115200	
Wait for dial tone before dialing	
	Cancel

步驟 10. Advanced →輸入額外的撥號指令,如下圖: 備註: GPRS 的 APN 由您當地的電信業者提供。 例如:

在台灣即輸入:AT+CGDCONT=1, "IP",

"INTERNET"

在中國大陸輸入:AT+CGDCONT=1, "IP",

"CMNET"

General Modem Diagnosics Advanced Driver	
Extra Settings	
2.	
Change Default Preference	28

步驟 11. Diagnostics \rightarrow Query Modem \rightarrow 點 "OK"

備註:如果出現錯誤訊息請再試一次。

ation			
Value			
mdmgen192			
Hesponse			
		-	2.
	(Query Mode	m)
		-	/
	Value mdmgen192 Response	Value mdmgen192 Response	Value mdmgen192 Response

Attached To
COM1

步驟 12. 點"OK"

6.1.3 建立新網路連結

步驟 1. Control Panel→ Network Connections→點"Create a

new connection"



步驟 2. 點"Next" 至下一步



頁 24/47

步驟 3. 選取"Connect to the Internet" → 點"Next"



步驟 4. 選取"Connect using a dial-up modem" →點

"Next" 至下一步



頁 25/47

步驟 5. ISP Name →填入您的 GPRS 名稱 →點 "Next"

New Connection Wizard
Connection Name What is the name of the service that provides your Internet connection?
Type the name of your ISP in the following box. ISP wame
The name you type here will be the name of the connection you are creating.
2
< Back Next > Cancel

步驟 6. 請輸入您的電話號碼 →點"Next" 至下一步

備註:電話號碼由您當地的電信業者提供,例如台灣為

New Connection Wizard	
Phone Number to Dial What is your ISP's phone number?	Ŋ
Type the phone number: Phone number: You might need to include a thir 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.	
2.	
< Back Next > Cano	:el

*99***1#

頁 26/47

步驟 7. 請輸入您 GPRS 的帳號及密碼→點 "Next"

備註:GPRS 的帳號密碼由您當地的電信業者提供。

New C	onnection Wizard
Inte	ernet 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 evisting account name or password, contact your ISP.)
1	User name:
(Password:
1	Confirm password:
	Use this account name and password when anyone connects to the Internation this computer
	Make this the default Internet connection
	Turn on Internet Connection Firewall for this connection 2.
	< Back Next > Cancel



New Connection Wizard	
	Completing the New Connection Wizard You have successfully completed the steps needed to create the following connection: Dial-up Connection • Make this the default connection • This connection is firewalled • Share with all users of this computer • Use the same user name & password for everyone The connection will be saved in the Network Connections folder. • Add a shortcut to this connection to my desktop To create the connection and close this wizard, click Finish.
	K Back Finish Cancel

頁 27 / 47

步驟 9. Control Panel→ Network Connections→點 "Your

S Network Connections File Edit View Favorites Tools Advanced Help Connect Search 🦻 Folders -Status Repair 💌 🛃 Go New Connection... Dial-up Network Setup Wizard... 0. Create Copy al-up Connection sconnected, Firewalled andard 19200 bps Mode Create Shortcut Delete LAN or High-Speed Internet Repa Propertie Local Area Connection Close Enabled VMware Accelerated AMD PCN... Change settings of this connection * Other Places 🕞 Control Panel 🧐 My Network Places A My Documents 👰 My Computer

GPRS's name"→ File→ Properties,如下圖所示:

步驟 10. General→選"Standard 19200 bps Modem"→點

"Configure"

onnect using: Dimedern - Star	ndard 19200 bp	s Modem (C	
Phone number - Area code:	Phone numb	er:	Alternates
Use dialing	rules		Dialing Rules
701			

頁 28/47

步驟 11. Maximum speed(bps) 選"115200", 取消勾選

"Enable hardware flow control"(備註)→點"OK"

備註:請勿勾選"Enable hardware flow control"。

Modem Configuration	? 🔀
Standard 19200 bps Modern (COM1)	
Maximum speed (bps): 115200 Modem protocol	~
Laroware features Enable hardware flow control Crictita and an compression Enable modem compression	
Show terminal window 3.	Cancel

步驟 12. 點"OK"

🎒 Moden	n - Standard 192	200 bps Modem	(COM1)	
Phone nu	mber		Cor	figure
Area co	de: Phone	number:		
			Altern	ates
Lountryz	region code;			~
Use	dialing rules		Dialing	Rules

步驟 13. Control Panel→ Network Connections→ 點兩下

"Your GPRS's name",如下圖所示:

S Network Connections	_ 🗆 🗙
File Edit View Favorites Tools Advanced Help	.
G Back - D - D Search P Folders	
Address 🔊 Network Connections	🖌 🔁 Go
Network Tasks 🛞 Dial-up 2.	
 Greate a new connection Set up a home or small office network Dial-up Connection Disconnected, Firewalled Standard 19200 bps Modem 	
Start this connection	
Rename this connection	
Delete this connection Change settings of this connection William Accelerated AMD PCN	
Other Places	
Control Panel	
S My Network Places	
My Documents	
3 My Computer	
Details	
Dial-up Connection	
Dial-up	
Disconnected, Firewalled	

步驟 14. 點 "Dial"

Connect Dial	-up Connection 🛛 🔹 🔀
User name:	guest
Password:	•••••
Save this (Me only Anyone	user name and password for the following users:
Dial:	*99***1#
Dial	Cancel Properties Help

頁 30/47

步驟15. 當您連線成功時,右下角工具列會顯示新的連線



步驟16. 您可以點兩下這個圖示→ 點"Details"→取得您

的IP位址。

)evice Type n Server type F	nodem
ierver type F	
	PP SB #B
ransports I authentication F	UP/IP PAP
Compression (r	none)
PP multilink framing C)ff
erver IP address 🛛 🦯	0.0.0.1
lient IP address	14.137.175.2
1	

6.2 LinPAC – 8000 (Linux)

- 6.2.1 GTM-201-3GWA 硬體需求
 - (1) GTM-201-3GWA
 - (2) LinPAC-8000
 - (3) USB Cable



GTM-201-3GWA

6.2.2 撥接方法

步驟1. 下載最新版 OS

LinPAC-8x4x:

<u>ftp://ftp.icpdas.com/pub/cd/linpac/napdos/lp-8x4x/os_image/</u> LinPAC-5x3x:

ftp://ftp.icpdas.com/pub/cd/linpac/napdos/lp-5000/lp-5x3x/O S_image/

LinPAC-5x4x:

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

PDS-8x2:

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

步驟 2. 連結 LinPAC 的 COM1 port 和 PC 的 COM port

步驟3. 開啟終端機並將參數設定為 115200/8/n/1

步驟 4. 開啟 LinPAC (請勿連結乙太網路)

步驟5. 登入帳號密碼並輸入"login" (系統默認之帳號為

root, 密碼為 root)。如下圖所示:

COM1,115200,None,8,1				
icewm-session: using icewmbg: using /root, IceWM: using /root/ icewmtray: using /roo	/root/.icewm fo /.icewm for privat icewm for privat ot/.icewm for p	or private vate config te configun rivate conf	configuration guration files ration files Figuration file	files es
<pre># login linpac-5000 login: r Password:</pre>	pot			
Distributor ID: Description:	ICP DAS LinPAC-5x4x			
Release OS:	1.1			
Release bootloader:	1.1			
Codename:	PACLNX 0.90			
Mar 4 14:53:04 logi	n[1129]: root 10	ogin on 'co	onsole'	
-sh: can't access tt	y; job control 1	curned off		
installed XW-boards .	lıst			
slot 1 XW-U				
#				
#				•
				•

步驟 6. 下指令安裝驅動:

insmod /lib/modules/2.6.19/sim5218.ko

COM1,115200,None,8,1	_ 🗆 🗙
<pre># insmod /lib/modules/2.6.19/sim5218.ko</pre>	
drivers/usb/serial/usb-serial.c: USB Serial support registered :	for SIM5218
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	
#	•
	► E

# ppp d dan by d # send (^M) send (AT2^M) expect (OK) AT2 AT2^M^M OKOK got it send (AT1^M) expect (OK) ^M AT1 AT1 AT1 AT1 AT1 AT1 AT1 AT1	
# send (^M) send (AT2^M) expect (0K) AT2 AT2^M^M OKOK got it send (AT1^M) expect (0K) ^M ATI ATI	
send (A12 M) expect (OK) ATZ ATZ^M^M OKOK got it send (ATI^M) expect (OK) ^M ATI ATI ATI	
ATZ ATZ'M^M OKOK got it send (ATI^M) expect (OK) ^M ATI ATI	
ATZ^M^W OKOK got it send (ATI^W) expect (OK) ^M ATI ATI	
OKOK got it send (ATI^M) expect (OK) ^M ATI otl^m	
got it send (ATI^M) expect (OK) ^M ATI ATI	
send (ATI^M) expect (OK) ^M ATI ATI	
ехрест (UK) ^М АТІ отт^м^м	
н АТІ отт^м^м	
Manufacturer: SIMCOM INCORPORATED	
Manufacturer: SIMCOM INCORPORATED^M	
Model: SIMCOM_SIM5218A	
Model: SIMCOM_SIM5218H M Revision: 240456814851M5218A	
Revision: 240150B1451M5218A^M	
SIM5218A_240150_100422_U1.24	
SIN5218A_240150_100422_U1.24 [^] M	
INE I: 355841030242927	
IMEI: 355841030242927^M	
+GCAP: +CGSM,+DS,+ES	
+GCAP: +CGSM,+DS,+ES^M	
[^] M	
UKUK	
yor IC cond (0T+00052^W)	
expect (OK)	
AT+COPS?	
AT+COPS?^M^M	
+COPS: 0,0,"Chunghwa Telecom",2	
+COPS: 0,0,"Chunghwa Telecom",2 ^M	
^M	
got it	
Senu (HTV6000MI-1, IT, INCENNEL M) exnert (NK)	
AT+CGDCONT=1."IP"."internet"	
AT+CGDCONT=1,"IP","internet"^M^M	
окок	
got it	
send (ATD*99#^M)	
expect (CUNNECT)	
ATD*99#^M^M	
CONNECTCONNECT	
got it	
send (^M)	
Serial connection established.	
Using channel 1	
Connect: pond <> /dev/ttuliSB3	
Warning - secret file /etc/ppp/pap-secrets has world and/or group access	
sent [LCP ConfReq id=0x1 <asyncmap 0x0=""> <magic 0xc51edf02=""> <pcomp> <accomp>]</accomp></pcomp></magic></asyncmap>	
rcvd [LCP ConfReq id=0x4 <asyncmap 0x0=""> <auth chap="" md5=""> <magic 0x1c4fe14=""> <pre> <pre> <accor< pre=""></accor<></pre></pre></magic></auth></asyncmap>	ap>]
NU AULI IS PUSSIULE sent [ICP ConfRei id=8vA (auth chan MD5)]	
rcvd [LCP Confack id=0x1 <asyncmap 0x0=""> <maqic 0xc51edf02=""> <pre> <accomp>]</accomp></pre></maqic></asyncmap>	
rcvd [LCP ConfReq id=0x5 <asýncmap 0x0=""> <magic 0x1c4fe14=""> <pcomp> <accomp>]</accomp></pcomp></magic></asýncmap>	
sent [LCP ConfAck id=0x5 <asyncmap 0x0=""> <magic 0x1c4fe14=""> <pcomp> <accomp>]</accomp></pcomp></magic></asyncmap>	
sent [LUP EchoReq id=0x0 magic=0xc51edf02] cont [CCP Configment id=0x1 (dof1ato 15) (dof1ato(c1d#) 15) (bod w1 15)]	
sent [667 6007864] 10-081 (defiate 15) (defiate(010#) 15/ (DSU 01 15/] sent [1700 ConfRem id=891 (compress UL 86 81) (addr 8 8 8) (sc-dns1 8 8 8 8) (ss-dns3	6 6 6 6>1
rcvd [LCP DiscReq id=8x6 maqic=6x1c4fe14]	0101010/1
rcvd [LCP EchoRep id=0x0 magic=0x1c4fe14 01 c4 fe 14]	
rcvd [LCP ProtRej id=0x7 80 fd 01 01 00 0f 1a 04 78 00 18 04 78 00 15 03 2f]	
רכים בויטר נסח+Nak ומ=שאו לאש-מחגו וש.11.12.13> לאש-מחגז 10.11.12.14> לאש-wins 10.11.12. אין אין גער	.13> <ms-wi< td=""></ms-wi<>
sent [IPCP ConfReg id=0x2 <compress 01="" 0f="" vj=""> <addr 0.0.0.0=""> <ms-dns1 10.11.12.13=""> <ms-d< td=""><td>ins3 10.11.1</td></ms-d<></ms-dns1></addr></compress>	ins3 10.11.1
rcvd [IPCP ConfReq id=0x2]	
sent [IPCP ConfNak id=0x2 <addr 0.0.0.0="">]</addr>	
rcvd [IPCP ConfRej id=0x2 <compress 01="" 0f="" vj="">]</compress>	
sent Lirur ContReq 1d=0x3 <addr 0.0.0.0=""> <ms-dns1 10.11.12.13=""> <ms-dns3 10.11.12.14="">] rcud [IPCP ContReg id=0x3]</ms-dns3></ms-dns1></addr>	
sent [IPCP ConfAck id=0x3]	
rcvd [IPCP ConfNak id=0x3 <addr 111.81.57.21=""> <ms-dns1 168.95.1.1=""> <ms-dns3 168.95.192.1<="" td=""><td>1>]</td></ms-dns3></ms-dns1></addr>	1>]
sent [IPCP ConfReq id=0x4 <addr 111.81.57.21=""> <ms-dns1 168.95.1.1=""> <ms-dns3 168.95.192.1<="" td=""><td>ı>j</td></ms-dns3></ms-dns1></addr>	ı>j
rcvd [IPCP ConfAck id=0x4 <addr 111.81.57.21=""> <ms-dns1 168.95.1.1=""> <ms-dns3 168.95.192.1<="" td=""><td>i>]</td></ms-dns3></ms-dns1></addr>	i>]
Could not determine remote IP address: defaulting to 10.64.64.64	
remote TP address 18.64.64	
primary DNS address 168.95.1.1	
secondary DNS address 168.95.192.1	
Script /etc/ppp/ip-up started (pid 1216)	
I SUFINE ZECZADDZID-UD FINISNEG (DIG 1276), STATUS = NXN	

步驟 7. 撥號: pppd call 3g &

頁 34 / 47

步驟 8. 確認 ppp 的狀態: ifconfig

:OM1	,115200,None,8,1	>
#		-
# ifco	nfig	
eth0	Link encap:Ethernet HWaddr 00:0D:E0:AB:CD:33	
	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:41 Base address:0x8000	
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	
o	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)	
0qqq	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	
	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)	
¥		ĺ
		Ī

步驟 9. 設定路徑: sh /etc/ppp/scripts/3g.route

步驟 10. 確認路徑的設定: route

步驟 11. 測試 3G/GPRS 網路: ftp ftp.speed .hinet.net

COM1,115200,None	e,8,1						_ ×
<pre># sh /etc/ppp/se # route Kernel IP routi</pre>	cripts/3g.route						
Destination 10.64.64.64 default #	Gateway * 10.64.64.64	Genmask 255.255.255.255 0.0.0.0	Flags UH UG	Metric O O	Ref O O	Use O O	Iface ppp0 ppp0
<pre># ftp ftp.speed. Connected to ftp 220- Welcome to 220- (ftp.speed. 220 Name (ftp.speed. 331 Please spec: Password: 230 Login success Remote system ty Using binary mod ftp> ftp></pre>	.hinet.net p.speed.hinet.ne HiNet SpeedTest .hinet.net:root) ify the password ssful. ype is UNIX. de to transfer f	t. FTP site. : ftp iles.					
ftp> by 221 Goodbye. #							-

7. USB 驅動安裝

7.1 XPAC – 8000 (Microsoft Windows XP)

7.1.1 安裝 USB 驅動

步驟1. 點兩下 "GTM-201-3GWA.exe"安裝驅動

步驟 2. 點 "Next"至下一步



步驟 3. 點"Next"至下一步

1🕏 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 Browse
At least 4.3 MB of free disk space is required.
< Back Next > Cancel

頁 37 / 47

步驟4. 點選"Install"開始進行安裝

🕼 Setup - GTM-201-3GWA	
Ready to Install Setup is now ready to begin installing GTM-201-3GWA on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\ICPDAS\GTM-201-3GWA	
< Back Install	Cancel

步驟 5. 點 "Finish"完成安裝

🕞 Setup - GTM-201-3GWA	
	Completing the GTM-201-3GWA Setup Wizard Setup has finished installing GTM-201-3GWA on your computer. Click Finish to exit Setup.
	Finish

頁 38/47

步驟 6. 使 GTM-201-3GWA 的 USB 和 PC 連結

步驟 7. 會彈跳出一個視窗("Found New Hardware Wizard")請按"Next"至下一步



步驟 7-1. 如果您接收到安裝成功的訊息,請點 "Finish"結束安裝。

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	

頁 39/47

步驟 7-2. 如果您接收到安裝失敗的訊息,請點選 "Install from a list or specific location"

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	

步驟 7-3. 點"Browse"瀏覽與選擇您的安裝資料夾,點

"Next"至下一步。

Found New Hardware Wizard			
Please choose your search and installation options.			
 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: C:\ICPDAS\GTM-201-3GWA Browse 			
O Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware. K K K Cancel			
頁 40 / 47			

步驟 8. 彈跳出一個協助 "GTM-201-3GWA NMEA"安裝 的 "Found New Hardware Wizard"提示視窗,請點選 "Next"至下一步。

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			

步驟 9. 彈跳出一個協助 "GTM-201-3GWA AT Port"安裝 的 "Found New Hardware Wizard"提示視窗,請點選 "Next"至下一步。



頁 41/47

步驟 10. 彈跳出一個協助 "GTM-201-3GWA Modem"安 裝的 "Found New Hardware Wizard"提示視窗,請點選 "Next"至下一步。



步驟 11. 彈跳出一個協助 "GTM-201-3GWA Wireless HS-USB Ethernet Adapter"安裝的 "Found New Hardware Wizard"提示視窗,請點選 "Next"至下一步。



頁 42 / 47

步驟 12. 安裝完畢後請開啟 "Device manager",將可見已 新增五個項目,如下圖所示:



7.2 LinPAC – 8000 (Linux)

同第6.2章節內容

【版本控管】

版本	作者	日期	說明
1.00	Malo	2011/4/18	Release