Maxon Electronics Australia Pty Ltd

# MM-5100 CDMA 800MHz 1xRTT Voice/Data/SMS Modem

Windows Setup Manual



Version: 1.an Date: August 9<sup>th</sup>, 2003



# FCC RF EXPOSURE COMPLIANCE

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this device complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

The use of this device in any other type of host configuration may not comply with FCC RF exposure requirements and should be avoided. During operation, a 20cm separation distance should be maintained between the antenna, whether extended or retracted, and the user's/bystander's body (excluding hands, wrists, feet, and ankles) to ensure FCC RF exposure compliance.

#### CAUTION

Change or modification without the express consent of Maxon Electronics Australia Pty. Ltd. voids the user's authority to use the equipment. This equipment has been tested and found to comply with the limits pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in an appropriate installation. This equipment generates, uses, and can radiate radio frequency energy and, if not used in accordance with instructions, can cause harmful radiation to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference in radio and television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving radio or TV antenna
- Increase the separation distance between the equipment and the receiver
- Contact RT Wireless Ltd. Technical Support for assistance.



#### **MM-5100 WINDOWS SETUP MANUAL**

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This information provided in this document is provided on an "as is" basis, is preliminary and subjected to change without notice.

In no event will Maxon Australia be liable for any damages arising directly or indirectly from any use of information contained in this document.

It is recommended that this manual be read in conjunction with other supporting documentation from Maxon Electronics Australia Pty. Ltd.

#### NOTES:

The user is cautioned that changes or modifications not expressly approved by Maxon Electronics Australia Pty Ltd could void the warrantee.

#### POTENTIALLY UNSAFE AREAS

**Posted facilities:** Turn off this device in any facility or area when posted notices require you to do so.

**Blasting areas:** Turn off your phone where blasting is in progress. Observe restrictions and follow any regulations or rules.

**Potentially explosive atmospheres:** Turn off your phone when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks in such areas could cause an explosion or fire, resulting in bodily injury or death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include:

- fuelling areas such as gas or petrol stations
- below deck on boats
- transfer or storage facilities for fuel or chemicals
- vehicles using liquefied petroleum gas, such as propane or butane
- areas when the air contains chemicals or particles such as grain, dust or metal powders
- any other area where you would normally be advised to turn off your engine



## 1. **REVISION HISTORY**

Level	Date	History		
0.1a	August 7 <sup>th</sup> , 2003	Commercial Release Version - Australia		
0.1an	0.1an August 19 <sup>th,</sup> 2003 Commercial Release Version - New Zealand			

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## 2. CONTACT INFORMATION

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#### 4. OVERVIEW

This manual is specifically provided as a guide to the set-up and operation of the Maxon MM-5100 modem with Windows<sup>TM</sup> for operation of the MM-5100 in Data or Fax mode when connected to a PC.

Details on loading the Drivers are covered in the initial section where we describe use of the installation CD.

The MM-5100 modem is a rugged, full duplex 1xRTT CDMA Voice/Data/Fax/SMS modem designed to operate on CDMA 800MHz networks. CDMA is an efficient and secure cellular wireless technology that compliments fixed or mobile applications.

Two main data services are available on CDMA networks: 1xRTT, a packet switched connection; and IS-95A, a circuit switched connection. IS-95A over-air data rates are limited to 14.4 kbps. The 1x service is capable of data rates as high as 153.6 kbps [network dependent].

The MM-5100 modem has been specifically designed to be compatible with 1xRTT networks to take full advantage of the exceptional data speeds and always-on connection, and is backwards compatible with IS95A circuit switched networks.

When using the MM-5100 for 1x connections, access is achieved via a PPP (TCP/IP) connection to the CDMA network. The CDMA carrier provides the Internet connectivity, becoming the ISP for that session.

Applications such as web browsing, email, FTP, LAN access, etc function as normal.

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## 5. LED FUNCTIONS

This section describes the labelling and functions of the LED on the MM-5100.

The RSSI LED will be OFF when RSSI is less than -105dBm, flashing when in-between the - 95dBm and -105dBm, and ON when greater than or equal to -95dBm.

NOTE: the higher the negative number i.e. the further away from ZERO, the weaker the received signal. The smaller the number i.e. the closer to ZERO, the stronger the received signal.

A flashing RSSI LED indicates potential need for an alternative antenna, relocating the antenna to a site more suited to signal acquisition, or elevation of the antenna to improve signal acquisition, or a combination of all the above.

LED Label	Description
pwr	Lit continuously when power is applied to modem
dtr	To indicate MODEM is live on Host device
sms	Blinks if there is unread SMS message
ri/rx	Blinks on incoming voice call, lights continuously on incoming data call, blinks on data from PC to MODEM
tx	Blinks on data from MODEM to PC
rssi	Lights continuously in RSSI range > -95dBm (This is the preferred range) Blinks in RSSI range -95dBm > -105dBm, (Signal is marginal) Turn-off at RSSI < -105dBm (No signal available)
roam	ON when inside a preferred roaming carrier network but outside Telstra's network, FLASHES when inside a <u>non</u> -preferred roaming carrier network but outside Telstra's network, OFF when inside Telstra network
crt	To indicate connection in Circuit Switched mode
pkt	To indicate active connection in Packet Switched mode (OFF when in dormant mode)
1x cell	To indicate that local cell supports Packet Switched data (OFF indicates cell supports only IS95A)
Note 1: In ALL	-LED-OFF state, when you connect ear piece to the MM-5100, the LED's are enabled for a

A consistent RSSI reading of -95dBm or better [number closer to '0'] is advisable.

Note 1: In ALL-LED-OFF state, when you connect ear piece to the MM-5100, the LED's are enabled for a value set by AT command AT\$\$EXT LED=<1~255sec>. If LED always ON is required, change the AT command parameter to '0'.

Note 2: If the LED's have been disabled by AT command prior to power cycle, all LED's will remain in OFF state until ear-piece is connected.



## 6. LOADING THE PHONE SOFTWARE & DRIVERS

As you will be required to connect your MM-5100 to your computer and a power source you must attach an antenna to MM-5100 NOW. This must be done before <u>ANY</u> power is connected to the modem.

NOTE: The MM-5100 can be powered solely through the USB connection to your PC, however the maximum power draw available on USB is 500mA. Therefore USB power would only be suitable where the RSSI signal strength LED on the modem is ON solid. If the RSSI LED is flashing we recommend you use alternative power source such as the optional 240vAC to 12vDC plug pack.

During the following steps you will:

Load UI software from CD supplied

Supply power to MM-5100

Connect MM-5100 to PC via the supplied Serial or USB cable

Load appropriate drivers from CD supplied

Step 1: Load the CD

Insert the supplied CD into your CD drive. It should auto-run without intervention. If not, locate the CD drive on your computer, then double click on Setup.exe.



This will start the installation.



When the software starts the screen will look similar to this:



If you are NOT intending to use the Maxon Phone UI software and only want to load the drivers then you may install the drivers only.

If USB is not present on your PC leave 'Install USB Driver' un-ticked.

If a Serial port is not present on your PC leave 'Install Serial Driver' un-ticked.

nstall Graphic Phone Interface?	
nstall USB Driver?	
nstall Serial Driver?	
Install all of the above features!	
he above installation will ensure full functionality of your M-5100 modem with your Windows operating system.	

If you ticked 'Install USB Driver' observe the following alert, then click " $\mathbf{OK}$ ".



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Tick features you want to load then click **"Next"** to continue.

Maxon MM-5100 Set	-Up
Install Graphic Phone Interface?	
Install USB Driver?	
Install Serial Driver?	
Install all of the above features!	Ø
The above installation will ensure full functionality of your MM-5100 modem with your Windows operating system.	
Next >	Cancel

Software & Drivers you selected will be installed in **C:\MAXON** folder or rename to suit your preference.

	×
Choose destination location To install to this folder click Next. To install to a different folder, click Browse and select another folder.	-
Browse	]
 < <u>B</u> ack <u>N</u> ext > Cancel	



If you selected to 'Install Serial Driver' select the Serial com port to which it is connected and the **communication speed** of the modem. The default comm. speed setting is 115200.

				2
Set the co	ommunicatio	on Port and S	peed.	
Com Port	Comm	unications Po	ort (COM1)	•
Com Spee	ed : 11520	00		-
	< <u>B</u> ack	Next	>	Cancel
_	-			

The software now installs the Serial Driver.

PC Installs Serial Modem         Please wait, while PC installs Serial Modem automatically.
K Back Next > Cancel



If you selected 'Install USB Driver' connect modem to PC via USB cable.

Connect the USB Modem to your PC ! Please wait, while PC finds and installs USB Modem automatically.
<u>K</u> Back Next≫ Cancel

Maxon Phone UI Software and Driver installation complete. Click 'Finish'.

	Setup has finished installation on your computer.
	MAXON USB Modem : COM4
and and the	MAXON Serial Modem : COM1
STATISTICS.	Phone UI Program : C:\MAXON
And and a state of the state of	
, The second second	
s <del></del>	
	Finish



To confirm loading of Drivers please go to 'Control Panel>Phone and Modem Options>Modems tab'.

Phone and Modem Options	? 🛛
Dialing Rules Modems Advanced	
The following modems are installe	ed:
Modem	Attached To
Conexant 56K ACLink Modem	COM3
MAXON Serial Modem	COM1
MAXON USB Modem	COM4
	Cancel Apply



## 7. SETUP MODEM USING HYPERTERMINAL

This section forward is for advanced users who may wish to control integration of the MM-5100 without using the Maxon Phone UI Software. This section should be read in conjunction with the MM-5100 AT Commands User Manual.

To change the baud rate, start HyperTerminal which is located under 'Start> Programs>Accessories>Communications>HyperTerminal'

			_								
		Programs	,	Ē.	Accessories	Þ	(	Accessibility	Þ		
				۲	Internet Explorer			Communications	۲	(internet)	Fax 🕨
Ð		Documents	۲I	<b>S</b>	Outlook Express		(	Entertainment	۲	Ē.	HyperTerminal •
8	<b>.</b>		.	内	Acrobat Reader 5.0		(	Games	(	1	HyperTerminal
ľ	<b>\$\$\$</b>	Settings	1	Þ	Windows Media Player		(	System Tools	r	0	Internet Connection Wizard
le		Search	١	Ē.	ArcSoft PhotoStudio 2000	۲	Ø	Address Book		29	NetMeeting
١Þ				Ē.	Canon ScanGear Toolbox 3.1	⊁		Calculator		è	Network and Dial-up Connections
18	1	Help		_	×		C:\	Command Prompt		6	Phone Dialer
		Due.	1			_	1	Imaging			
	<u> </u>	<u>K</u> un					7	Notepad			
	<b>M</b>	Shut Down					9	Synchronize			
Þ		Sigebowin						Windows Explorer			
	Start	🖸 🥭 🗯 📿 🔍 🕨 🐮 🛛					<b>*</b>	WordPad			

HyperTerminal starts



HyperTerminal asks you for a Connection Description so enter a name of your choosing for this connection.





E.g. the connection name is "115200\_MODEM". Click '**OK**'.

Connection Description	<u>?</u> ×
New Connection	
Enter a name and choose an icon for the connection:	
Name:	
115200_MODEM	
lcon:	
	<b>×</b>
OK Can	cel

Drop down the "connect using" dialog box and select the Com Port the modem is connected to via the serial RS232 cable. (The modem should be powered on). Select your country.

Connect To	? ×						
<b>4</b> 115200_	MODEM						
Enter details for	the phone number that you want to dial:						
Country/region: Korea (Republic of) (82)							
Ar <u>e</u> a code:	02						
Phone number:							
Co <u>n</u> nect using:	СОМ1						
	OK Cancel						

Select COM1 if the modem is connected to Com Port 1 then click 'OK'.

Connect To	<u>? ×</u>
<b>e</b> 115200 <u>.</u>	MODEM
Enter details for	the phone number that you want to dial:
Country/region:	Korea (Republic of) (82)
Ar <u>e</u> a code:	02
Phone number:	
Co <u>n</u> nect using:	COM1
	OK Cancel



Select Properties from the File menu or the Properties button, then click on '**Configure**' for this com port and in this dialog box, select Bits per second (bps).

COM	1 Properties	×
Po	rt Settings	
	-	
	Bits per second: 2400	
	Data bits: 8	
	Parity: None	
	Stop bits: 1	
	Flow control: Hardware	
	<u>B</u> estore Defaults	
	OK Cancel Apply	

The default baud rate of the MM5100 is 115200. Select 115200bps.

After selecting the bits per second confirm that the Data bits is set to "8", Parity "none", Stop Bits "1" and "Hardware" flow control. Click "**OK**" to continue.

COM	l Properties
Por	t Settings
	Bits per second: 115200
	Data bits: 8
	Parity: None
	Stop bits: 1
	Elow control: Hardware
	<u>R</u> estore Defaults
	OK Cancel Apply



HyperTerminal communicates with the modem at 115200bps.

Type "AT" inside the HyperTerminal window then the Enter/CR key.

The Modem responds to AT command by sending an "OK" back.

This proves that the modem is correctly connected with PC through serial port and is communicating at 115200bps.

🎨 115200_MODEM - H	perTerminal							×
<u>Eile E</u> dit ⊻iew <u>C</u> all <u>T</u>	ransfer <u>H</u> elp							
0 🖻 🔊 🕉 🗈	20							
								-
at OK								
								J
Connected 0:00:24	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	

Type "at+ipr?" and then Enter to confirm the Modems communication speed.

Modem responds to the above command with the set IPR value. This should be 115200.

🏀 115200_MODEM - Hy	perTerminal							×	
Eile Edit ⊻iew ⊆all <u>T</u> r	ile Edit ⊻iew ⊆all Iransfer Help								
02 28 01	9								
at OK									
at+ipr?									
+IPR: 115200									
OV.									
UK									
-									
							Þ	-	
Connected 0:01:05	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	/	



Now, change the communication speed to 19200bps by typing the AT Command "AT+IPR=19200" and then enter.

🏶 115200_MODEM - Hy	perTerminal						
$\underline{E}ile  \underline{E}dit  \underline{V}iew  \underline{C}all  \underline{T}r$	ansfer <u>H</u> elp						
0202	9 🖻						
							<u> </u>
at							
at+inr?							
+IPR: 115200							
OK							
at+1pr=19200_							
							_
							-
•							
Connected 0:01:50	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo

The response "OK" after sending of "at+ipr=19200" confirms that the speed of the modem has been changed to 19200.

After the "OK" response, you will not be able to communicate with the modem using AT Commands in HyperTerminal. This is due to the HyperTerminal comm. speed set at 115200 whereas you have now set the modem comm. speed to 19200.

Disconnect from HyperTerminal by clicking "Disconnect" in the toolbar to release the connection.





Now connection is released, and you can change the properties of HyperTerminal. Click the "**Properties**" button on the toolbar.

4	115200_MO	DEM - Hy	perTerminal							×
E	ile <u>E</u> dit ⊻iew	<u>⊂</u> all <u>⊺</u> r	ansfer <u>H</u> elp							
C	12 2	s  •0 ;	88							
Ē			Propertie	s						-
Ш	at			ck here to set	nronerties	of CON	Inort			
Ш	OK atting?		CII.		properties	01 000	port			
Ш	+IPR: 115	200								
Ш										
Ш	OK	<b></b>								
Ш	OK	200								
Ш	· · ·									
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	lt It	is disco	nnected							
										₋
	connected	-	Auto detect	115200 S-N-1	ISCROU	CAPS	NUM	Capture	Print echo	<u> </u>

#### Properties "Configure".

8115200_MODEM - H	115200_MODEM Properties	? ×	
<u>File E</u> dit <u>V</u> iew <u>C</u> all [	Connect To Settings		
□ 🗃 🗇 🕈 🗈 at	115200_MODEM Change [con]		<b>_</b> _
at+ipr? +IPR: 115200	Country/region: Korea (Republic of) (82)		
	Enter the area code without the long-distance prefix.		
at+ipr=19200	Ar <u>e</u> a code: 02		
OK	Phone number:		
	Connect using: COM1		
	Configure  Use country/region code and area code  E Redial on busy		_
<u>  </u>			
Disconnected	ОК Са	incel	apture Print echo

#### The communication speed was set to115200bps.

4	2115200_MODEM - H	115200	_MODEM Properties		? ×	
E	<u>ile E</u> dit <u>V</u> iew <u>C</u> all [	Conne	ect To Settings			
	16 28 0	6				
Г	<b></b>	<b>(</b> CC	M1 Properties		? ×	
I	at OK		Port Settings			
I	at+ipr?	<u>c</u>				
I	+IPR: 115200	F				
I	ок		<u>B</u> its per second:	115200		
I	at+ipr=19200	£				
I	UK	E	<u>D</u> ata bits:	8		
I		С	Paritu	None	_	
I			Early.	Indic		
I			Stop bits:	1	-	
I		F				-
I		Г	Elow control:	Hardware	•	
Ŀ	Ú	_		Bestor	a Dafaulte	
D	isconnected			<u> </u>		Print echo
		-		K Canad	A 1	
				K Cancel	Apply	



Set communication speed to 19200bps.

COM1 Properties	? ×
Port Settings	
5	
Bits per second:	115200
	9200
Data bite: E	38400
<u>D</u> ata bits. 1	115200
Deniter D	230400
Eanty. Jr	None 🗾
Charles I	
Stop bits:	
Elow control: [F	Hardware 🗾
	Bestore Defaults
	Lancel <u>Apply</u>

Now, you can send the "AT" Commands at 19200bps to the MODEM.

Type "AT" and then enter. The modem should respond back with an "OK".

🍓 115200_MODEM - Hy	perTerminal						
<u>File Edit View Call T</u> i	ransfer <u>H</u> elp						
□≥ 88 □	2						
							<u> </u>
at ov							
at+ipr?							
+IPR: 115200							
l ov							
UK at+inr=19200							
OK							
at							
ок							
-							
<u>  </u>							
	Autoritation	40000.0.11.4	Ischou	CARC		Cashuna	Duint ante
Connected U:01:02	Auto detect	]19200 8-N-1	JSCROLL	JCAPS	INUM	Capture	JPrint echo //

Type "AT+IPR?" and then "ENTER" key.

🍓 115200_MODEM - Hy	perTerminal						- 🛛 💶 🗙
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>Tr</u>	ansfer <u>H</u> elp						
02 22 21	5 🖻						
							<b></b>
at							
at+inr?							
+IPR: 115200							
OK							
at+ipr=19200							
at							
OK							
at+ipr?							
+IPR: 19200							
OK							
							-
		1					Þ
Connected 0:01:50	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo

You have successfully changed the communication speed of the modem to 19200bps.

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You must now shut down the HyperTerminal program. Click the "Yes" button.

🍓 115200_MODEM - Hy	perTerminal							×
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> r	ansfer <u>H</u> elp							
02020	9 🖻							
at OK at+ipr? +IPR: 115200								
OK at*ipr=19200 OK at OK at*ipr? *IPR: 19200	HyperTermina You Are	al are currently cor you sure you war <u>Y</u> es	inected. nt to disconne <u>N</u> o	ect now?				
ок —								
Connected 0:01:50	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	<u> </u> //.

Save HyperTerminal so that you do not have to set the properties again.

			-				
🏀 115200_MODEM - Hy	perTerminal						
<u>File Edit View Call Tr</u>	ransfer <u>H</u> elp						
02 88 0	61 🔊						
							<b></b>
at							
OK							
at+ipr?							
+IPR: 115200							
ок 🚺	lyperTermina				×		
at+ipr=19200							
ок .	🕐 Doy	ou want to save s	ession 115200	_MODEM	?		
at	~V°						
OK	Ves	No	Cape	el Í			
AC+1077							
111. 17200							
ок							
							-
•							
Connected 0:01:50	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo



### 8. MODEM SETUP UNDER WINDOWS OS

#### 8.1. Setup Standard 19200 Modem

The same procedure applies to set up in Windows 2000 and Windows 98.

Open Control Panel

After you have changed the communication speed of Modem to 19200bps, select modem under "Control Panel" then "Phone and Modem Options"

					Network and Dial-up Connections 🔸	
0	<b>m</b>	Programs		2	Phone and Modern Options	rules and modern properties
15	~			1	Police of a part of the grant o	rules and modelin properties
5		Documents •		<u> </u>	Printers	
l s	5	Settings	🧟 Control Panel	ъ 🍕	Regional Options	
15	250	Dettings ,	<b>On</b>	. 🧟	Scanners and Cameras	
۹.		Search •	Network and Dial-up Connections	1 🖻	Scheduled Tasks	
18		_	Printers	4	Sounds and Multimedia	
S N	2	Help	Taskbar & Start Menu	_ ė	System	
I		Run		<u>1</u>	Text Services	
	<u> </u>			- 2	<ul> <li>Users and Passwords</li> </ul>	
ĮĘ		Shut Down		8	WIBU-KEY	
		-	]	- 0	Silicon Image ATA Controllers	
	Start	] 📶 🥭 🔍		6	CVS for NT	
		1		Č.	j Fax	

Select Modem tab and click on ADD to setup a new modem.

Phone And Modem Options		<u>?</u> ×
Dialing Rules Modems Advance	ed	
The following modems	are installed:	
Modem	Attached To	
There is no installed	l Modem list, here.	
Clicl insta	k "Add" button and all 19200bps Modem, please	
	d <u>R</u> emove <u>Properti</u>	es
	OK Cancel Ar	ply



In the 'Add/Remove Hardware Wizard' select the box beside "Don't detect my modem; I will select it from a list". Click "**Next** >"to continue with the installation.

My Computer Win2	ntal New Modem	ALL AND AND
My Documents Con From explore Network Network Network S3 Pro	Windows will now by to detect your modern. Before computer will now by to detect your modern. Before computer will now by to detect your modern and the set of the se	
Microsoft Cellular Outlook	<back next=""> Cancel</back>	- APP
Recycle Bin Connect to Internet Setup MSN Setup MSN Informet A.	Dialog from: New Location C&A Duing Properties to modily how your calls are dialog impossible 	
i∰ Stat	California Control Control Par (P) Doc	unert 12000 2005 3 14974

Select Standard Modem Types under the manufacturers list.



Select Standard 19200bps Modem under Models.

Add/Remove Hardware Wizard		
Install Ne <del>w</del> Modem		
Select the manufacturer an have an installation disk, cli	d model of your modem. If your modem is n ck Have Disk.	ot listed, or if you
Manufacturers:	Mode <u>l</u> s:	
(Standard Modern Types) 3Com 3X Accex Accex Accer 4 1 <sup>11</sup>	Standard 9600 bps Modem Standard 14400 bps Modem Etandard 12200 bps Modem Standard 28800 bps Modem Standard 38000 bps Modem Standard 56000 bps KS5Flex Modem Standard 56000 bps V90 Modem	▲ ▼ <u>H</u> ave Disk
	< Back	Cancel



Select the Com Port that will be used by this modem.

Add/Remove Hardware Wizard
Install New Modem Select the port(s) you want to install the modern on.
You have selected the following modem: Standard 19200 bps Modem On which ports do you want to install it? All ports Selected ports COM1 CDM2
< <u>₿</u> ack <u>N</u> ext > Cancel

Installation is now complete. Click "Finish" button to finish installing the New Modem.

Add/Remove 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.	
< <u>B</u> ack [Finish]] Can	icel

Verify Installation of Standard 19200bps Modem by checking under listed modems in Control Panel. Click on the "**Properties**" button.

Phone And Modem Options	? X
Dialing Rules Modems Advanced	
The following modems are installed:	
Modem Attached To	
Standard 19200 bps Modem COM1	
	-
I	
A <u>d</u> d <u>R</u> emove	
OK Canc	el <u>Apply</u>



This page should show the COM Port this modem will use and the Maximum Port speed.

Standard 19200 bps Modem Properties	? ×
General Diagnostics Advanced	
Port: COM1	
<u>– S</u> peaker volume	_
Low High	
Maximum Port Speed	
Dial Control	_
$\square$ $\underline{\mathbb{W}}$ ait for dial tone before dialing	
ОК С	ancel

#### 8.2. Setup Maxon USB Modem Driver

A USB connection between the PC and the MM-5100 allows full use of the 1x networks high speed data transfer rates. Serial Cable connections between the PC and any connected device have a baud limit of 115kbps.

Install the USB driver as previously described using Maxon Phone UI Software and selecting installation of Maxon USB Driver. When finished the Maxon USB modem should now be listed under 'Modems' in the Device Manager.





#### 8.3. Setup Maxon Serial Modem Driver

The Serial Driver is required for utilising data rates greater than 19,200bps (up to 115kbps) for example when using the 1x network.

Install the Serial driver as previously described using Maxon Phone UI Software and selecting installation of Maxon Serial Driver. When finished the Maxon Serial modem should now be listed under 'Modems' in the Device Manager.



#### 8.4. USB or Serial Modem Properties

Under 'Control Panel>Phone And Modem Options' you can see that the MM-5100 Modem Drivers you have loaded are now listed. To check the installed Modem click "**Properties**" button or double click the listed modem.

Phone And Modem Options	<u>? ×</u>
Dialing Rules Modems Advanced	1]
The following modems ar	e installed:
Modem	Attached To
🚺 🤇 🖉 MM-5100 115200 bps Modem	COM1
Add.	<u>R</u> emove <u>Properties</u>
	DK Cancel Apply



#### 8.4.1. Change MM-5100 Modem Properties

This section is applicable to both the Serial and USB modems. It deals with the different settings required for QNC or 1x Packet Connection (for Fax settings please refer to next chapter):

For QNC Connection, type "AT+CRM=131".

For 1x Packet Connection, type "AT+CRM=150".

Then Click **'OK'** Button.

MM-5100 115200 bps Modem Properties	? ×	MM-5100 115200 bps Modem Properties	<u>?</u> ×
General Diagnostics Advanced		General Diagnostics Advanced	
Extra Settings Extra initialization commands: (AT+CRM=131)		Extra Settings Extra initialization commands: (AT+CRM=150)	
Change Default Preferen	ces Cancel	Change Default Preferences	ncel



# 9. SETTING UP WINFAX PRO WITH WINDOWS 98 AND 2000.

#### 9.1.1. Introduction

Installation of WinFax Pro 10.\* and above.

To install WinFax<sup>®</sup>, please see WinFax<sup>®</sup> setup guide provided by Symantec<sup>®</sup>.

Note: WinFax® supports only 19200bps. If you use the MM-5100 at 115200bps baud rate, but want to send or receive Fax by WinFax® you must change the baud rate from 115200bps to 19200 bps. The modem speed should be set to 19200bps. Please use AT+IPR command to change the communication speed of the MM-5100.



Execute WinFax®





# 9.1.2. Setting up WinFax® General Properties when using RS232 port.

😻 Messag	e Manager						
<u>F</u> ile <u>E</u> dit	View Go Tools Send Receiv	ve <u>H</u> elp Pr	operties for:	CCMG-1x	19200 bps Moo	lem	<u>? ×</u>
<b>™</b> Send	🗅 New 🖌 🚔 🛛 🗙 🕞	2° N?	General Fax	1			
outbox	Phonebook (My Phoneboo Fertility of the second	k) 4 http://www.company Setup	Set : Communic:	general option ations <u>p</u> ort——	s for your moder 4-1	n, 4-2 initialize at 19200	<b>y</b> bps
Receive Log	Backup and Restore Call Status and Contr Calling Cards Concord Services Dialing and Location	◆ Pager and § roller	Volume Off -	connected	Ţ <u> </u>	High	
Send Log	Fax Sharing Client Fax Sharing Client Market Sharing Host Message Manageme Moders and Comm	ent 2-2 unications Devices Moderns and Communication	Class 2,0	e 	4-3		
Cover Pages Phonebo	Allows you to a specified loc	General 3 Select and set up the mo devices you want to use Define "Active" devices for locatio Possible devices: 3-2 Connection Device	odems and othe 3-1 n: Defau	er communica It Port COM1	tions	OK	Cancel
WinFax Attachme		CCMG In 115200 bps Modem CCMG-1x 115200 bps Modem CCMG-1x 115200 bps Modem Add Re Receive and dialing settings To configure how a device ans phone, click Receive Setup To configure how a device dial sending faxes, click Dialing Se	#2 #3 **********************************	ADI API API B-3 Test Com Receive S Dialing S	Ports		
Phonebook (	Count: 1 record(s)					Default	2:39 pm //
			OK	Cancel	Apply		

- 1: You can define program and user setup by selecting this.
- 2: Setup Dialog Box
- 2-1: Option tab
- 2-2: Modem setup
- 3: Modems and Comms Devices Properties Dialog Box
- 3-1: Leave it as "Default"
- 3-2: You must select Standard 19200bps Modem.
- 3-3: Select the Modem "Properties..." button
- 4: Properties for MM-5100 General tab
- 4-1: Modem connects with COM 1
- 4-2: You must select "19200" bps
- 4-3: WinFax<sup>®</sup> detects Class 2.0 automatically
- NOTE: Under item 3-1 there may be 4 options as below:

1. Cellular (Analog/AMPS)

2. Cellular (PCS/GSM-Digital)

<u>3. Default</u>

4. Dial as entered

Any of these options can be selected and work well. But if possible select "default".

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#### 9.1.3. Fax Properties - when using Serial

🗞 Message Manager		Incention from CCMC 11, 10200 hore M	
<u>File Edit View Go Tools Send Receiv</u>	re <u>H</u> elp	ropercies for: CCMG-1x 19200 bps Mi	odem 🔄 🕺 🗴
📙 📴 Send 🔄 🗅 New 🕞 😂 🖌 😒	2 №?	General +ax >	1
Outbox     Phonebook (My Phoneboo       Outbox     Folder       WinFax     PRO       Options     Options	k) Iame ∧ 1 Comnanu letup	Set faxing options for your model so use these settings when faxing: 5-1	m, 5-3
Receive Log Send Log Send Log	roller Pager and { roller Printer Drive Receive Receiv	Magimum: 9500 bps	1. AT+CFM=0     2.     3.     4.     Elow control:     Use hardware flow control <u>Reset:    </u>
Cover Pages Phonebo WinFax Attachme	Modems and Communication         General         Select and set up the m         devices you want to use         Define "Active" devices for location         Pgssible devices:         Connection Device         Conde-1x 19200 bps Modem         CCMG-1x 115200 bps Modem         CCMG-1x 115200 bps Modem         CCMG-1x 115200 bps Moden         To configure how a device an phone, click Receive Setup         To configure how a device dis sending faxes, click Dialing St.	odems and other communications a, por: Default Port Active COMI n #2 TAPI n #3 TAPI emove Properties Iest Com Ports swers the Receive Setup ils when Dialing Setup	
Phonebook Count: 1 record(s)		OK Cancel Anniu	Default 2:39 pm //

#### 5: Properties for MM 5100 Fax tab

5.1: For reliable transmission we recommend you select the Maximum Transmission speed as "9600bps" and the Minimum Transmission speed at "9600bps" or "Send at any rate". Maximum Transmission can be set at "14400bps" but if faxing proves unreliable, set back to "9600".

- 5-2: Do NOT select this.
- 5-3: You must type the strings:

"AT+CRM=0" in Field 1;

"AT\$QCVAD=2" in Field 2;

"AT+FCLASS=2.0" in Flow control field;

"Use hardware flow control" MUST be ticked;

ATZ in Reset field;

After typing that string, click the "OK" button.

If your WinFax<sup>®</sup> has the combo box in item number 5 as below:

1. Cellular (Analog/AMPS)

2. Cellular (PCS/GSM-Digital)

Either of these can be selected and work well.



#### 9.1.4. Start Using

After setting up, click on File and select "Send New"



Send Fax by clicking the "Send" button.

😳 Message	Manager									JX
<u>Eile E</u> dit <u>V</u>	⊻iew <u>G</u> o <u>T</u> ools	: <u>S</u> end <u>R</u> ece	ive <u>H</u> elp							
<b>™</b> Send	🗅 New 👻 📄	${}   \times   {}$	2°   N	?						
<u>.</u>	Logs (Receined Folder	ive Log)	×./!	® Name ⊽2	Date ⊽1	Panes	Phone Number/Call	Company	Subject	-
	Hessages		~	a name -	D'dito	1 4300	There rearrangely early,	. company	oubjeet	
Outbox	Outbox	100								
	Send Li	og								
Basaina	WinEax PB	O Send							(n) x	1
Log	Eile Edit Vi	ew Insert R	e <u>c</u> ipient j	Options <u>H</u> elp						1
	⊡Send ©E	Preview 🖃 En	nail 😡	S - K?						
	To:					<b>B</b> -1	My Phonebook			
Send Log	Number:						Outlook Express			
	Compan <u>y</u> :	[				🛍 Nar	me ∆1 Comp	oany ∆2	<u>^</u>	
- 🅪		😫 Add to Lis		🚯 Sched <u>u</u> le	× @					ŕ
Cover Pages	Recipients:					621				Ł
		<u> </u>							-	13
<b>1</b>	Subject:	[				•				
Phonebo	Quick Cover F	Page 💌		7		в 🗶	표 🏻 🖹 Annotate 🕰	<b>*</b>		
	Fain A		Sent : Subject :	<date> at <time></time></date>			Pages : 1 (including co	ver)	-	
			1							
WinFax										
Adactime	-			Cover Pac	ie st				• •	
				001011103						1
	O Ready,							1	Pages //	
										×
Log Count: 0 i	message(s), 0 un	read					Default		3:40 pm	1



# 9.1.5. Setting up WinFax® General Properties when using USB connection



- 1: You can define program and user setup
- 2: Setup Dialog Box
- 2-1: Option tab
- 2-2: Setup Maxon (Qualcomm) USB Modem here
- 3: Modems and Communications Devices Properties Dialog Box
- 3-1: Leave it as "Default"
- 3-2: Select installed Maxon USB Modem.
- 3-3: Select the Modem then click the "Properties..." button
- 4: Properties for Maxon USB Modem's General tab
- 4-1: It connects with COM5 or whichever comm USB modem uses.
- 4-2: You must select "19200" bps
- 4-3: WinFax<sup>®</sup> detects Class 2.0 automatically

NOTE: Under item 3-1 there may be 4 options as below:

1. Cellular (Analog/AMPS)

2. Cellular (PCS/GSM-Digital)

<u>3. Default</u>

4. Dial as entered

Any of these options can be selected and work well. But if possible select "default".



#### 9.1.6. FAX Properties – when using USB



5: Properties for Maxon USB Modem's Fax tab

5-1: You must select the Maximum Transmission speed as "9600bps" and the

Minimum Transmission speed as the item of "9600bps" or "Send at any rate"

5-2: Do NOT select this.

5.1: For reliable transmission we recommend you select the Maximum Transmission speed as "9600bps" and the Minimum Transmission speed at "9600bps" or "Send at any rate". Maximum Transmission can be set at "14400bps" but if faxing proves unreliable, set back to "9600".

- 5-2: Do NOT select this.
- 5-3: You must type the strings:

"AT+CRM=0" in Field 1;

"AT\$QCVAD=2" in Field 2;

"AT+FCLASS=2.0" in Flow control field;

"Use hardware flow control" MUST be ticked;

ATZ in Reset field;

After typing that string, click the "**OK**" button.

If WinFax<sup>®</sup> has the combo box in item number 5 as below either of these can be selected and work well. - 1. Cellular (Analog/AMPS) 2. Cellular (PCS/GSM-Digital)

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#### 9.1.7. Start Using

After setting up, click on File and select "Send New"



Send Fax by clicking the "Send" button.

🥸 Message	Manager		_ <u> </u>
<u>Eile E</u> dit <u>V</u>	<u>/lew Go Tools S</u> end <u>R</u> eceive <u>H</u> elp		
<b>™</b> Send	🗅 New 🔸 🧀 📉 🔯 😰 🕺		
outbox	♦ Logs (Receive Log)           Folder         ×         ×         • </th <th>T Pages Phone Number/Call Company</th> <th>Subject</th>	T Pages Phone Number/Call Company	Subject
eceive	Receive Log Send Log Wastebasket WinFax PRO Send		- II X
Log	File Edit View Insert Recipient Options Help CSend CSEnd Color: Io:	⊕ ∰ My Phonebook	
Send Log	Number: Company:	Company / 2	
Cover Pages	Becipients:	621	-1 L
<b>\$</b>	Subject:	R Z II E Annotate uf 19	
WinFax	Sent: <queb <time="" at=""></queb>	Pages : 1 (Including cover)	
Addennie	✓ P ■IQご Cover Page  Ø Ready,	1	Pages
Log Count: 0 r	message(s). O unread	Default	3:40 pm



### **10.CHANGE FROM WINFAX TO 1X DATA SESSION**

To go from a WinFax or Asynchronous data call the modem must be reset to accept 1x communications by changing the baud back from 19200bps to 115200bps.

Open saved HyperTerminal session.

If you had saved HyperTerminal connection when changing the speed from 115200 to 19200, open that connection.

8		Programs	G	Accessories	۰ 🖨	Accessibility	Þ				
Ē	100	- Cogramo	٨	Internet Explorer	G	Communications	►	٦	Fax 🕨		
10		Documents	1	Outlook Express	( <del>)</del>	Entertainment	Þ	ſ,	HyperTerminal	2	115200_MODEM.ht
8	R.		内	Acrobat Reader 5.0	e	Games	•	1	HyperTerminal		Type: HyperTerminal File
ē	44) (1)	Settings		Windows Media Player	e (†	System Tools	►	۲	Internet Connection Wizard		Size: 1.48 KB
Ē		Seargh 🕨	e	ArcSoft PhotoStudio 2000	۷ 📢	Address Book		20	NetMeeting		
8	~	-	(init)	Canon ScanGear Toolbox 3.1	۱ 📾	Calculator		è	Network and Dial-up Connections		
ŝ	1	Help		¥	015	Command Prompt		6	Phone Dialer		
R	-	Pup	$\square$		<u> </u>	Imaging					
H	<u> </u>	<u>R</u> anni			2	Notepad					
١ <u>ج</u>	6	Shut Down			3	Synchronize					
≥	<b>V</b>	Suge Commen			- Q	Windows Explorer					
*	Start	) 🚮 🥭 🗯 🗋 🖄 🔰 🦉			2	WordPad					

Starts HyperTerminal



The HyperTerminal speed should be set to 19200.





Type "at+ipr?" followed by 'enter' to confirm the modem's communication speed.

The modem should respond with +IPR: 19200 and OK.

🍓 115200_MODEM - Hy	perTerminal						
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> r	ansfer <u>H</u> elp						
02 28 0	9						
							<u> </u>
at+ipr? +IPR: 19200							
ок							
-							
Connected 0:01:52	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Canture	Print echo

Now, change the communication speed to 115200bps by typing the following AT Command "at+ipr=115200" followed by enter.

The response "OK" after sending of "at+ipr=115200" confirms that the speed of the modem has changed to115200.

After that "OK" response, you can't type any other AT Command in HyperTerminal. The Hyper Terminal speed has to be changed to 115200.

🍓 115200_MOD	EM - Hy	perTerminal							×
<u>File E</u> dit <u>V</u> iew	<u>C</u> all <u>⊺</u> r	ansfer <u>H</u> elp							
02 03		9 8							
									•
at+ipr?									-
+IPR: 1920	0								
at+ipr=115	200								
ок									
-									
								F	-
Connected 0:02:45		Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	- /



Click "Disconnect" in the toolbar and release the connection.

🏀 115200_MODEM - HyperTerminal	
<u>File Edit View Call Iransfer Help</u>	
Disconnect	<b>_</b>
at+ipr?	
*1FN. 19200	
ок	
at+ipr=115200	
UK	
-	
It's still in connection	
	▼ 
Connected 0:03:45 Auto detect 19200 8-N-1 SCROLL CAPS NUM Capture	Print echo

After the connection has been released, change the properties of HyperTerminal. Click on the "Properties" button in the toolbar.

<b>&amp;</b> 115200_N	10DEM - Hy	/perTerminal						
<u>Eile E</u> dit <u>V</u> i	ew <u>⊂</u> all <u>T</u> i	ransfer <u>H</u> elp						
02 20	3	(말)						
		Propertie	:5					<u> </u>
+IPR: 1	9288	⊂_i	ick here to set	properties	s of COI	M port		
	1200							
OK	445988							
	115200							
III-								
	lt is disco	nnected						
								▼ ►
Disconnected	$\supset$	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo

In the Properties dialog box. Select the Com Port to which the modem is connected to. Click the "Configure..." button

🎨 115200_MODEM - H	115200_MODEM Properties	? ×	
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>;</u>	Connect To Settings		
<u> </u>			
at+ipr? +IPR: 19200	115200_MODEM		<u>A</u>
OK .	Country/region: Korea (Republic of) (82)		
at+ipr=115200	Enter the area code without the long-distance prefix.		
ок	Area code: 02		
	Phone number:		
	Connect using: COM1		
	Configure		
	✓ Use country/region code and area code ✓ Redial on busy		_
			<b>_</b>
Disconnected	OKCa	ncel	apture Print echo



Under Port Settings, the communication 'Bits per second:' speed is currently 19200bps.

Select 115200 and click 'OK'

COM1 Properties		? ×
Port Settings		
Bits per second:	19200 💌	
	19200	
Data bits:	38400	
(	115200	
Parity	230400	
Taul.		
Stop bits:	1	
<u><u>s</u>top bits.</u>		
Elow control:	Hardwara	
<u>F</u> low control:		
	Restore Defaults	1 II
		-
	Lancel <u>App</u>	9

The communication speed has now been changed to 115200bps.

🏀 115200_MODEM - Hy	perTerminal						
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> r	ansfer <u>H</u> elp						
02020	9 🖻						
an in the second							<u> </u>
+IPR: 19200							
OK							
-							
Disconnected	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo

Now check the MM-5100 communication speed. Type "at+ipr?" and enter.

An OK response confirms the comms speed of the modem has been changed to 115200.

4	115200_MODEM - Hy	perTerminal							×
E	ile <u>E</u> dit <u>V</u> iew <u>⊂</u> all <u>T</u> r	ansfer <u>H</u> elp							
	) 🖻 🔊 🔊 🖻	9 🖻							
Г									-
Ш	at+ipr?								
Ш	+1PK: 19200								
Ш	ок								
Ш	at+ipr=115200								
Ш	OK								
Ш	at+1pr?								
Ш	-1FN. 115200								
Ш	ок								
Ш	_								
Ш									
Ш									
Ш									
Ш									
									Ţ
								•	
Co	onnected 0:00:25	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	_//.



NOTE: for details on the

access

## 11. SETTING UP QNC (QUICK NET CONNECT) WINDOWS 98 & 2000

erator

Before setting up QNC you should install the modem. This is explained in this manual under "Modem Setup Under Windows". Particularly refer to the section "Change MM-5100 Modem Properties"

different settings required for QNC or 1x Packet Connection:



Start Dialup Networking as shown below.

	*	Windows Update		1	
B	-	Programs	Þ		
SSIO		Documents	•		<u></u>
je	<b>.</b>	Settings	•	2	Control Panel
8	3	Search	Þ		Network and Dial-up Connections Printers Disclose optimized and dial in according to the connections of the
<b>S</b> 201		Help		-	Taskbar & Start Men and helps you create new ones
No B	2	Run			
ž	D	Shut Down			
1	Start	🗹 🈂 😂			

Open Control Panel folder and double click on the icon "Network and Dial-up Connections".

🕺 Control Panel						_ 🗆 ×	
Eile Edit View Favorites	<u>T</u> ools <u>H</u> elp						
📙 🗢 Back 👻 🔿 👻 🔁 🛛 🔞 Sear	rch 🔁 Folders (	History	26 27 26	D 📰 -			
Address 🞯 Control Panel						▼ 🔗 Go	
	હ		*	1	B	2	
Control Panel	Accessibility Options	Add/Remove Hardware	Add/Remove Programs	Administrative Tools	Date/Time	Display	
Network and Dial-up	<u>م</u>	A	e.	<b>(</b>		Ø	
Connects to other computers, networks, and the Internet	Folder Options	Fonts	Game Controllers	Internet Options	Keyboard	Mouse	
Windows Update Windows 2000 Support		_	ų,	<b>S</b>	3		
	Network and Dial-up Connections	Phone and Modem	Power Options	Printers	Regional Options	Scanners and Cameras	
	0	<b>~</b>		<b>S</b> ,			
	Scheduled Tasks	Sounds and Multimedia	System	Users and Passwords			
Connects to other computers, network	onnects to other computers, networks, and the Internet						

<u>nd internet</u> nformation

/mobilint.htm



Double Click on the icon "Make New Connections".



This will start a new connection wizard, click "Next >" to continue.

Network Connection Wizard	
	Welcome to the Network Connection Wizard Using this wizard you can create a connection to other computers and networks, emabling applications such as e-mail, Web browsing, file sharing, and printing. To continue, click Next.
	< Back Cancel

Select connection type of "Dial-up to private network" and then click the "Next >" button





Type the phone number for QNC or 1x connection which is #777 and click "Next >".

Network Connection Wizard			
Phone Number to Dial You must specify the phone number of th connect to.	ne computer or ne	twork you want to	I)
Type the phone number of the computer your computer to determine automatically dialing rules.	or network you ar how to dial from o	e connecting to. If y different locations, cl	ou want heck Use
Area code: #777 Country/region code:	er:		
ļ		7	
☐ ∐se dialing rules			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Select your preference and click the button "Next >".

Network Connection Wizard
Connection Availability You may make the new connection available to all users, or just yourself.
You may make this connection available to all users, or keep it only for your own use. A connection stored in your profile will not be available unless you are logged on.
Create this connection:
Eor all users
C Only for myself
< <u>Back</u> <u>Next</u> > Cancel

Type the name you want to use for this connection, and click "Finish".

Network Connection Wizard	
	Completing the Network Connection Wizard Type the name you want to use for this connection: Dial-up Connection To create this connection and save it in the Network and Dial-up Connections folder, click Finsh. To edit this connection in the Network and Dial-up Connections folder, select it, click File, and then click Properties.
	< <u>B</u> ack Finish Cancel



After successful setup of Network Connection Wizard, you can start the Dial-up connection by double clicking on this new connection icon in the 'Network and Dialup Connections' box.

Type User name, Forsword	then click "I	Dial".	
Then click "Proper is ".			
1) QNC Connection	<u>or</u>	2) 1x Pack	tet Connection
User nan qncuser		User name	e: <u>mobile@jamamobile</u>
Password V ssqnc		Password:	telecom
For either option select "Say	ve Password'	"	
Connect Dial-up Connection	<u>? ×</u>	Connect Dial-up	Connection ?X
	7		J P
User name: qncuser		User name:	user@telstra.internet
Password:		<u>P</u> assword:	*****
Save password			Save password
Djat #777		Djal:	#777
Dial Cancel Properties	Help	Dial	Cancel Properties Help



#### If you wish you can check or set the Properties of this Connection.

Dial-up Connection	? ×	Dial-up Connection	? ×
General Options Security Networking Sharing		General Options Security Networking Sharing	,
Connect using:		- Dialing options	
Modem - MM-5100 115200 box Modem (COM1)	<u> </u>	Display progress while connecting	
Modelli - MM-5100 115200 bps Modelli (COMT)		Prompt for name and password, certificate, etc.	
Config	jure	Include Windows logon domain	
		Prompt for phone number	
Arga code: Phone number:	- 1	Hedialing options	
	es	<u>R</u> edial attempts:	<u> </u>
Country/region code:		Time between redial attempts: 1 minute	•
	<b>V</b>	Idle time before hanging up: never	•
Use dialing rules		Bedial if line is dropped	
Show icon in taskbar when connected		<u>×.25</u>	
OK	Cancel	ОК	Cancel
Dial-up Connection	<u>? ×</u>	Dial-up Connection	? ×
General Options Security Networking Sharing		General Options Security Networking Sharing	
- Conviluentions		Ture of Folio coursel on colline	
Security options     Typical frecommended settings		l ype or dial-up server I am calling:	
Validate mu identitu as follows:		PPP: Windows 95/98/NT4/2000, Internet	
	<b>-</b>	2	ettings
Automatically use my windows logon name and password (and domain if any)		Components checked are used by this connection:	
Beguine data encruption (disconnect if none)		✓ Y Internet Protocol (TCP/IP)	
		File and Printer Sharing for Microsoft Networks	
<ul> <li>Advanced (custom settings)</li> </ul>		Client for Microsoft Networks	
Using these settings requires a knowledge Setting	IS SEC.		
or security protocols.	_		
		Install Uninstall Prop	ercies
Interactive logon and scripting		Description	
		Transmission Control Protocol/Internet Protocol, The c	lefault
		wide area network protocol that provides communicati	on
Edit Browse		across diverse interconnected networks.	
	Canad		Cancel
		UN	Cancer

You have now completed the MM-5100 modem setup and Windows functionality.

If you have any questions relating to this setup procedure please contact your dealer or RT Wireless Ltd. on +64 4 562 8226 or visit their web site at <u>engineering@rtwireless.co.nz</u>.