Maxon Electronics Australia Pty Ltd

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

Windows Setup Manual



Version: 1.an Date: August 9th, 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 th , 2003	Commercial Release Version - Australia	
0.1an	August 19th, 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 WindowsTM 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.

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

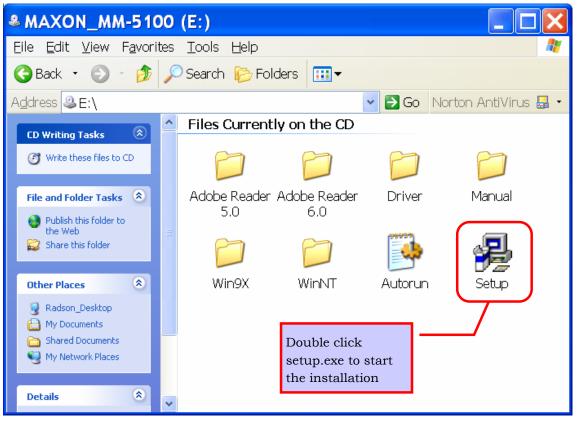
Supply power to MM-5100

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?	
Install Serial Driver?	
Install all of the above features!	
The above installation will ensure full functionality of your AM-5100 modem with your Windows operating system.	

If you ticked 'Install USB Driver' observe the following alert, then click "OK".





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

V

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.	1
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.

		×
Set the com	nunication Port and Speed	
Com Port :	Communications Port (CC	DM1) 💌
Com Speed	115200	•
	< <u>B</u> ack <u>N</u> ext >	Cancel

The software now installs the Serial Driver.

PC Installs Serial Modem Please wait, while PC installs Serial Modem automatically.
<u> ≪B</u> ack <u>N</u> ext > 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 Modern : COM4
Statistical Cold	MAXON Serial Modem : COM1
CONTRACTOR OF THE OWNER.	Phone UI Program : C.\MAXON
(Sheersen	
	(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 <u>m</u> odems are installe	ed:
Modem	Attached To
Conexant 56K ACLink Modern	COM3
MAXON Serial Modem	COM1
MAXON USB Modem	COM4
A <u>d</u> d (Remove Properties
ОК	Cancel Apply

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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.

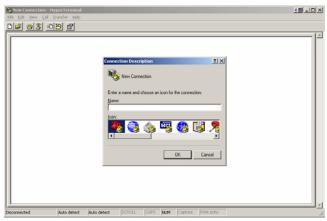
To change the baud rate, start HyperTerminal which is located under 'Start> Programs>Accessories>Communications>HyperTerminal'

	Programs	G	Accessories	Þ	(Accessibility		
E	[] ograns	۲	Internet Explorer		G.	Communications		🛱 Fax 🕨
15 合	Documents	5	Outlook Express		(initial)	Entertainment) (👼 HyperTerminal 🔹 🕨
8 🔜		内	Acrobat Reader 5.0		Ē.	Games I	ſ	🐚 HyperTerminal
e 🐉	Settings		Windows Media Player		Ē.	System Tools	r (🚯 Internet Connection Wizard
🖣 🕥	Seargh 🕨	Ē.	ArcSoft PhotoStudio 2000	۲	Ø	Address Book	4	🎒 NetMeeting
8 🚬		Ē.	Canon ScanGear Toolbox 3.1	۲		Calculator	6	Network and Dial-up Connections
8 🧭	Help		×		C:\	Command Prompt	é	🚳 Phone Dialer
2 🖅	Run	\square			•	Imaging	J	
1 <u>1</u>	Kann				7	Notepad		
5	Shut Down				1	Synchronize		
					<u>i</u>	Windows Explorer		
Start] 🚮 🥭 🦃 🗋 🍳 🖄 🔰				3	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		? ×
New Connection		
Enter a name and choose an i	con for the connection:	
<u>N</u> ame:		
115200_MODEM		
lcon:		
	🦉 🧐 🐻	2
	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	? ×
4 115200_	MODEM
Enter details for	the phone number that you want to dial:
<u>Country/region:</u>	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		? ×
e 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	
<u>P</u> hone number:		
Connect using:	COM1	•
	OK Cance	3



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	nt Settings
	Bits per second: 2400 ▼
	Data bits: 8
	Parity: None
	Stop bits: 1
	Elow control: Hardware
	<u>R</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	1 Properties
Po	rt Settings
	Bits per second: 115200
	Data bits: 8
	Parity: None
	Stop bits:
	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 - Hy	perTerminal							×
<u>Eile E</u> dit ⊻iew ⊆all <u>T</u>	ransfer <u>H</u> elp							
02 23	8							
at								
ок								
								1
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	ansfer <u>H</u> elp						
02 28 01	9 🖻						
at OK at+ipr? +IPR: 115200 OK _							<u> </u>
Connected 0:01:05	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	▼ Print echo



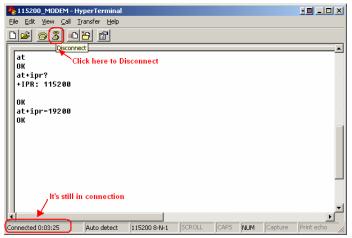
Now, change the communication speed to 19200bps by typing the AT Command "AT+IPR=19200" and then enter.

🏀 115200_MODEM - Hy	perTerminal						
<u>E</u> ile <u>E</u> dit ⊻iew <u>C</u> all <u>T</u> r	ansfer <u>H</u> elp						
02 22	9						
							<u> </u>
at OK							
at+ipr?							
+IPR: 115200							
ок							
at+ipr=19200_							
III · -							
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.

🍓 115200_N	10DEM - Hy	perTerminal							×
<u>E</u> ile <u>E</u> dit ⊻ie	w <u>⊂</u> all <u>T</u>	ransfer <u>H</u> elp							
02 3	3 0	79 (B)							
		Propertie	s						-
at			ck here to set	properties	of CON	Dort			
OK at+ipr?									
+IPR: 1									
OK at+ipr=	19288								
OK P.									
	lt is disco	un coto d							
	n is disco '	onnected							_
1 ×								D	۱. ا
Disconnected		Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo	

Properties "Configure".

🧞 115200_MODEM - H	115200_MODEM Properties	? ×	
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>:</u>	Connect To Settings		
□ 🗃 🗇 💲 😐 аt ок	115200_MODEM Change [con]		_ _
at+ipr? +IPR: 115200	Country/region: Korea (Republic of) (82)		
ок	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 ☐ Redial on busy		
			•
Disconnected	OKCa	incel	apture Print echo

The communication speed was set to115200bps.

4	8115200_MODEM - H	11520	00_MODEM Properties		?×	
Ē	<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>:</u>	Con	nnect To Settings			
[🗅 🖻 🙍 🖉 🖻					
Ī		1	COM1 Properties		<u>?</u> ×	
I	at OK		Port Settings			
I	at+ipr?	Ē				
I	+IPR: 115200	E			-	
I	ок		<u>B</u> its per second:	115200	1	
I	at+ipr=19200 OK	¢			-	
I	UK	E	<u>D</u> ata bits:	8	1	
I		С	Parity:	None	1	
I			Equity.			
I			Stop bits:	1	1	
I		Г Г		· _	-	
I		ſ	Elow control:	Hardware 💌]	
						-
L	•	_		Restore Defa	ulte	
D	isconnected			<u>H</u> estore Dera	iuno -	Print echo //
				K 1 Court 1	Annels .	
			0	K Cancel	Apply	



Set communication speed to 19200bps.

000 00111100		
COM1 Properties		? ×
Port Settings		
<u>B</u> its per second:	115200	-
C	19200 38400	
<u>D</u> ata bits:	57600	
	115200 230400	-
Parity:	None	-
<u>S</u> top bits:	1	<u> </u>
<u>F</u> low control:	Hardware	
	<u>R</u> esto	re Defaults
01	K Cancel	Apply

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 Tr</u>							
02 28	9						
							<u> </u>
at OK							
at+ipr?							
+IPR: 115200							
0K at+ipr=19200							
OK							
at							
ок							
-							
Ц							
			CCD QU	Canc.		Carlana	Pulat a sha
Connected 0:01:02	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	Print echo //

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

🍓 115200_MODEM - Hy	perTerminal						
<u>Eile E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> r	ansfer <u>H</u> elp						
02 22 21	9 🖻						
							<u> </u>
at OK							
at+ipr?							
+IPR: 115200							
OK							
at+ipr=19200 OK							
at							
ок							
at+ipr?							
+IPR: 19200							
ок							
							-
Ĩ							
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> i	ransfer <u>H</u> elp							
D 🖻 😰 🕉 🗈	8							
at OK at+ipr? +IPR: 115200								•
OK at+ipr=19200 OK at OK at+ipr? +IPR: 19200	Are	al u are currently cc e you sure you w Yes		ect now?				
ок —								_
Connected 0:01:50	A de debert		SCROLL	CAPS		Cashura	Print echo	ſ
Connected 0:01:50	Auto detect	19200 8-N-1	JOCKOLL	CAPS	NUM	Capture	Jenne echo	_//_

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

🏀 115200_MODEM - HyperTerminal	
<u>Eile Edit Yiew Call Iransfer Help</u>	
at	
OK	
at+ipr?	
+IPR: 115200	
0K HyperTerminal	
at+ipr=19200	
OK OD you want to save session 115200_MODEM ?	
at	
at+ipr? <u>Yes No</u> Cancel	
+IPR: 19200	
OK	
	_
	▼ _
Connected 0:01:50 Auto detect 19200 8-N-1 SCROLL CAPS NUM Capture F	

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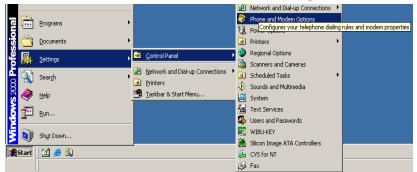
8. MODEM SETUP UNDER WINDOWS OS

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"



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

Phone And Modem Options			? ×
Dialing Rules Modems Advance	ed		
The following modems	are installed	ł:	
Modem	Attached	То	
	k "Add"	button and	
Ad		<u>R</u> emove	<u>P</u> roperties
	OK	Cancel	Apply

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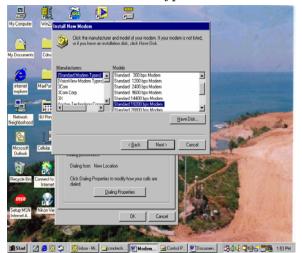
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In the 'Add/Remove Hardware Wizard' select the box beside "Don't detect my modem; I will select it from a list". Click "**Next** >"to continue with the installation.

My Computer WinZ	nstal New Modem	
My Documents Color response Network Network Network	Windows will now by to detect your moders. Before consultance, you should compare the two should be your compare that may be using the compare that may be using the moders. Click Next when you are ready to contrue.	
Microsoft Celular	Cancel	and the second s
Recycle Bin Connect to Internet	Dialing from: New Location Cick: Dialing Properties to modify how your calls are dialed	
Setup MSN Internet A. Nikon Vie Internet A.	OK Cancel	mer. 13-05 Q466-5 14994

Select Standard Modem Types under the manufacturers list.



Select Standard 19200bps Modem under Models.

dd/Remove Hardware Wizard
Install New Modem
Select the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk, click Have Disk.
Manufacturers: Modeļs:
[Standard Modern Types] Standard 9600 bps Modern 3Com Standard 14400 bps Modern 3K Standard 12800 bps Modern Aceex Standard 28800 bps Modern Acer Standard 28800 bps Modern Standard 28800 bps Modern Standard 28800 bps Modern Standard 56000 bps Modern Standard 56000 bps Modern Standard 56000 bps V90 Modern Have Disk
< <u>B</u> ack Next> 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 modem 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>₿ack</u> <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!	E
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.	
< Back	ancel

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

Phone And Modem Options	<u>? ×</u>
Dialing Rules Modems Advanced	
The following modems are installed:	
Modem Attached To]
Standard 19200 bps Modem COM1	
Add <u>R</u> emove Properties	ןכ
OK Cancel Appl	y



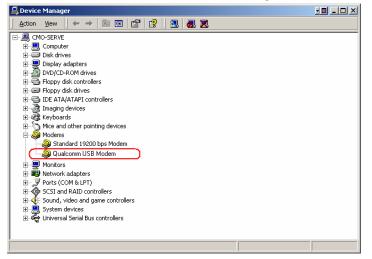
This page should show the COM Port this modem will use and the Maximum Port speed.

Standard 19200 bps Modem Properties	? ×
General Diagnostics Advanced	
Port: COM1	
_ <u>S</u> peaker volume	_
Low High	
Maximum Port Speed	
Dial Control	_
☐ Wait for dial tone before dialing	
ОКС	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.

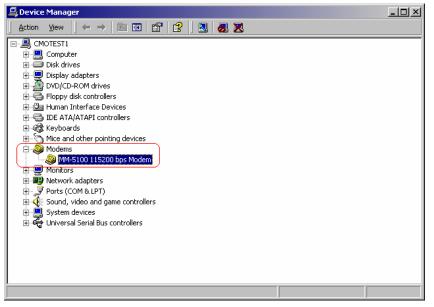




8.3. Setup Maxon Serial Modem Driver

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	I)
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	<u>? ×</u>	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 <u>D</u> efault Preference	is	Change Default Preferences	

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

9.1.1. Introduction

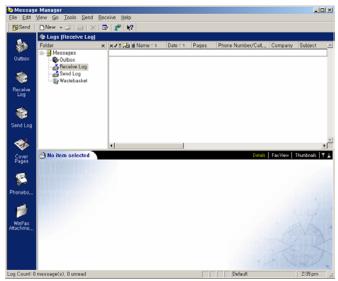
Installation of WinFax Pro 10.* and above.

To install WinFax®, please see WinFax® setup guide provided by Symantec®.

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®



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

😺 Messagi	e Manager						
<u>F</u> ile <u>E</u> dit	View Go Tools Send Receiv	ve <u>H</u> elp	roperties for: C	CMG-1x	19200 bps Mo	dem	<u>? ×</u>
🕞 Send	🗅 New 🖌 🚔 🛛 😹 🔿	2° N?	General Fax				
کی Outbox	Phonebook (My Phonebook Former States) States (My Phonebook) States (My Phonebook)	Company	Set ger		s for your mode 4-1	m, 4-2 initialize at 19200	▼ bps
Receive Log		a⊜ Receive a⊒ Send a⊒ User	Volume Off I On until co	onnected	J	High	
Send Log	a Fax Sharing Client a Fax Sharing Host Message Manageme Modems and Comm	ant 2-2 unications Devices Modems and Communication	Modem type –		4-3		
Cover Pages Phonebo	Allows you to a specified loc	General 3 Select and set up the modevices you want to use Define "Active" devices for locatio Possible devices: 3-2 Connection Device Connection Device	n: Default	rt MI	tions	OK	Cancel
WinFax Attachme		CCMG-1x 115200 bps Modem	#2 TAF #3 TAF emove 3.3 swers the	oj oj <u>P</u> ropert	Ports		
Phonebook C	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[®] 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>

<u>4. Dial as entered</u>

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

邊 Messagi			Properties for: CCMG-1x 19200 bps Mod	em ?X
	<u>View Go Tools S</u> end <u>R</u> eceiv	- <u>Tob</u>		
🕞 Send		æ №?	General Fax 5	
Sutbox	Phonebook (My Phonebool Folder Star PRO Program S Options	ome (1	Set faxing options for your modem, so use these settings when faxing: 5-1	5-3
Receive Log Send Log	Backup and Restore Call Status and Contre Calling Cards Calling Cards Concrd Services Dialing and Location Email and Outlook Int Fax Sharing Client Fax Sharing Host Wessage Manageme Modems and Comm	Arceive Bend Muser egration nt unications Devices	Magimum: 5500 bps	1. AT+CRM=0 2.
Cover Pages Phonebo WinFax Attachme	Allows you to a specified loc	devices you want to us Define "Active" devices for jocat Possible devices: Connection Device CCMG-1x 19200 bps Mode CCMG-1x 115200 bps Mode CCMG-1x 115200 bps Mode	ion: Default ▼ Port Activ ▲ m COMI ✓ m TAPI m TAPI m TAPI	OK Cancel Apply
Phonebook C	Count: 1 record(s)	Receive and dialing settings To configure how a device an phone. Click Receive Setup To configure how a device di sending laxes, click Dialing S	nswers the Receive Setup	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[®] has the combo box in item number 5 as below:

- 1. Cellular (Analog/AMPS)
- 2. Cellular (PCS/GSM-Digital)

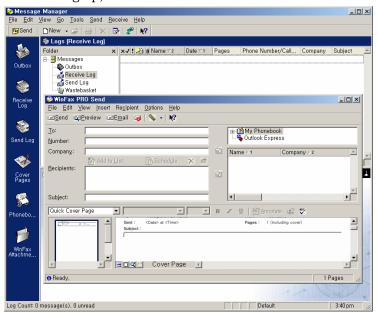
Either of these can be selected and work well.

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9.1.4. Start Using

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



Send Fax by clicking the "Send" button.

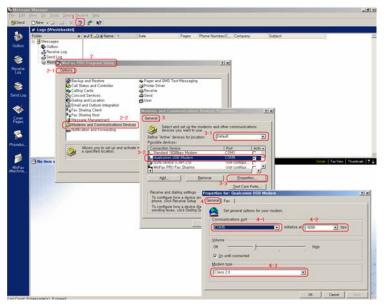
🧼 Message	e Manager		
<u>Eile E</u> dit (<u>View Go Tools S</u> end <u>R</u> eceive <u>H</u> elp		
™ Send	🗅 New 🕞 🥔 📈 💀 🜮 💦		
Sutbox	Logs [Receive Log] Folder × ×√ : → @ Name ⊖ @ Nessages	2 Date ⊽1 Pages Phone Number/Call, (Company Subject 💻
Receive Log	Send Log Wastebasket WinFax PRO Send		
Log Send Log		Help	
Cover Pages	Company: Becipients:	記 Name ^ 1 Company 년 文 成	y ∧ 2 ▲
Phonebo	Subject: Quick Cover Page	▼ ▼ B / U 🖺 Annotate 🖧 🛡	
WinFax Attachme	Sent: Obec at C		
	• Ready.		1 Pages
Log Count: 0	message(s), 0 unread	Default	3:40 pm

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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[®] 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

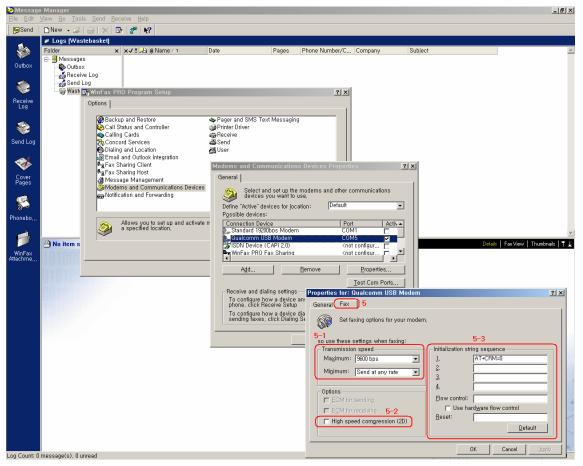
Any of these options can be selected and work well. But if possible select "default".

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9.1.6. 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[®] 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)

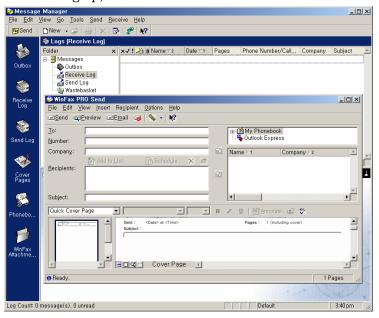
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9.1.7. Start Using

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



Send Fax by clicking the "Send" button.

🤒 Message	Manager		
<u>E</u> ile <u>E</u> dit ⊻	<u>view Go Tools S</u> end <u>R</u> eceive <u>H</u> elp		
📴 Send	🗅 New 👻 🥔 📈 💀 🛷 💦		
- 🍛 I		Pages Phone Number/Call.,, Company Subject	
Outbox	E Messages		
۲	- 🛃 Send Log Satebasket		
Receive Log	SWinFax PRO Send File Edit View Insert Recipient Options Help	<u> </u>	<u>र</u>
۲	To:	⊕ @ My Phonebook	
Send Log	Number:	Qutlook Express	
	Compan <u>y</u> :	Name A1 Company A2	1
Cover Pages	Recipients:	1 <u>2</u>	ľ
\$	Subject:		-
Phonebo	Quick Cover Page 💌 🔽 🗾	B 🖌 🗉 🖹 🚰 Annotate 🐗 🖤	
WinFax Attachme	Bent : Cataba di Clineo Bablect :	Pages : 1 (Including cover)	
	Cover Page		
	O Ready,	1 Pages	11.
			R
Log Count: 0 n	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.

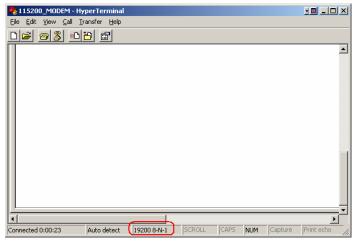
If you had saved HyperTerminal connection when changing the speed from 115200 to 19200, open that connection.

a b	Programs	, 🖶	Accessories	۰ ট	Accessibility	Þ			_	
E -		8	Internet Explorer	C.	Communications	►	Ē	Fax		
5	Documents	و) ا	Outlook Express	e interest and int	Entertainment	•	G	HyperTerminal	•	115200_MODEM.ht
şe 🛯	4	.内	Acrobat Reader 5.0	e	Games	•	1	HyperTerminal		Type: HyperTerminal File
1 E 🖇	Settings	' Þ	Windows Media Player	r (†	System Tools	•	٥	Internet Connection Wizard		Size: 1.48 KB
<u>م</u>	Seargh	ء ا	ArcSoft PhotoStudio 2000	۲ 🔰	Address Book		2)	NetMeeting		
8	- ·	Ē	Canon ScanGear Toolbox 3.1	۰ 🖬	Calculator		è	Network and Dial-up Connections		
8	Help		¥	Ci/	Command Prompt		6	Phone Dialer		
1 🕈 🗄	Run	Т		M	Imaging					
Ť,		_		2	Notepad					
	Shut Down			5	Synchronize					
	<u> </u>				Windows Explorer					
Sta	न्त 🗹 🥭 🗯 🗋 🖄 📗 😤				WordPad					

Starts HyperTerminal



The HyperTerminal speed should be set to 19200.



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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> i	ransfer <u>H</u> elp							
02 28 0	8							
at+ipr? +IPR: 19200								
ок								
-								
								-
•							•	
Connected 0:01:52	Auto detect	19200 8-N-1	SCROLL	CAPS	NUM	Capture	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_MODEM - Hy	perTerminal						
<u>Eile E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> r							
02 28 01	9 🖻						
							<u> </u>
at+ipr? +IPR: 19200							
111. 17200							
ОК							
at+ipr=115200 OK							
- 							
							-
•							Þ
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 E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp						
DF 6 <u>8</u> - B						
Disconnect at+ipr? +IPR: 19200 OK at+ipr=115200 OK	Disconnect					<u> </u>
-						
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.

🍓 115200_M0	DEM - Hy	perTerminal						
		ansfer <u>H</u> elp						
	s 🔤	9(8)						
		Propertie	s					<u> </u>
at+ipr? +IPR: 192			ck here to set	nronortioe	of COL	Inort		
+1PK: 192	00	CI	ck nere to set	properties	01 COI	n port		
ок								
at+ipr=11	5200							
ок								
-								
lt It	is disco	nnected						
Щ								
	·	[auna			
Disconnected		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		
□ 🗃 🍘 💲 💷 at+ipr? +IPR: 19200	115200_MODEM Change [con]		^ _
ок	Country/region: Korea (Republic of) (82)		
at+ipr=115200	Enter the area code without the long-distance prefix.		
OK	Ar <u>e</u> a code: 02		
	Phone number:		
	Connect using: COM1		
	Configure		
	 Use country/region code and area code <u>R</u>edial on busy 		
1			▼ ▶
Disconnected	OK Ca	ncel	apture Print echo



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

Select 115200 and click 'OK'

COM1 Properties	<u>? ×</u>
Port Settings	
-	[]
Bits per second:	19200 💌
	19200
<u>D</u> ata bits:	38400
	115200
Parity:	
Stop bits:	1
Elow control:	Hardware
	<u>R</u> estore Defaults
0	IK Cancel Apply

The communication speed has now been changed to 115200bps.

🏶 115200_MODEM - Hy	perTermina						
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> r	ansfer <u>H</u> elp						
D 🛩 🔊 🔊 🗈	8						
							_
at+ipr? +IPR: 19200							
0K at+ipr=115200							
-							
							-
I			<u> </u>				<u> </u>
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.

2	115200_MODEM - Hy	perTerminal							×
E	le <u>E</u> dit ⊻iew <u>C</u> all <u>T</u> ra	ansfer <u>H</u> elp							
C) 🛎 👩 🗿 🛍	9 🖻							
Г									
Ш	at+ipr? +IPR: 19200								
Ш	+1PK: 19200								
Ш	ок								
Ш	at+ipr=115200								
Ш	OK								
Ш	at+ipr? +IPR: 115200								
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									-
Ľ								•	
Co	nnected 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

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"



This is the set of the

<u>cceerator</u>

	1		8
	Windows Update		
폍 💼	Programs	۲	
ଞ୍ଚ 🔷	Documents	•	
ų 🙀	Settings	Þ	Control Panel
é 🕄	Search	►	Network and Dial-up Connections Printers Displays naturals and dial-up connections on this computer.
8 🤣	Help		Printers Displays network and dial-up connections on this computer Taskbar & Start Menuand helps you create new ones
ų 🔁	Run		
Š 🗊	Shut Down		
Start	i 🙆 🤔 😂		

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

🔯 Control Panel						_ 🗆 ×
Eile Edit View Favorites	<u>[</u> ools <u>H</u> elp					()
← Back → → → 🗈 🔞 Sear	ch 🔁 Folders 🤅	③History [2 G 🗙 🖉) •		
Address 🐼 Control Panel						▼ @Go
Control Panel	Accessibility Options	Add/Remove	Add/Remove Programs	Administrative Tools	Date/Time	Display
Network and Dial-up Connections	Folder Options		Game		Keyboard	Mouse
Connects to other computers, networks, and the Internet <u>Windows Update</u> Windows 2000 Support				Options		
	Network and Dial-up Connections	Phone and Modem	Power Options	Printers	Regional Options	Scanners and Cameras
	Scheduled Tasks	Sounds and Multimedia	System	Users and Passwords		
Connects to other computers, network	s, and the Internet				🖳 My Comp	outer //

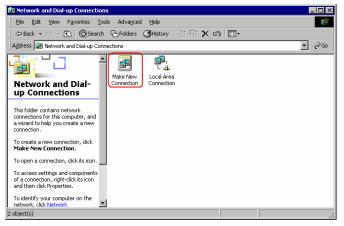
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<u>nd internet</u> nformation

;/mobilint.htm



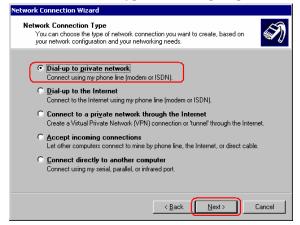
Double Click on the icon "Make New Connections".



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, enabling 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 the connect to.	computer or network you want to
	r network you are connecting to. If you want ww to dial from different locations, check Use
Area code:	<u>}</u>
I	Y
☐ Use dialing rules	
	< Back Next > 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> Cancel

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

Network Connection Wizard	
	Completing the Network Connection Wizard Lype 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, Fusword	then click "I	Dial".			
Then click "Properties".					
1) QNC Control icit	or	2) 1x Pacl	ket Con	nection	
User nan qncuser		User nam	le:	<u>mobile@jan</u>	namobile
Password V ssqnc		Password	:	telecom	
For either option select "Say	ve Password'	,			
Connect Dial-up Connection	?×	Connect Dial-u	p Connection		<u>?</u> ×
口任	Z			H H	¥
User name: qncuser		<u>U</u> ser name:	user@telstra.	internet	
Password:		Password:	*****		
Save password			□ <u>S</u> ave pas	sword	
Djat #777	_	Djal:	#777		•
Dial Cancel Properties	<u>H</u> elp	<u>D</u> ial	Cancel	Properties	<u>H</u> elp

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

Dial-up Connection	? ×	Dial-up Connection	<u>? ×</u>
General Options Security Networking Sharing		General Options Security Networking Sharing	
Connect using:		Dialing options	
Modem - MM-5100 115200 bps Modem (COM1)	— <u> </u>	Display progress while connecting	
Middelin Mini Stob (15200 bps Modelin (Colinti)		Prompt for name and password, certificate, etc.	
Config	ure	□ Include <u>W</u> indows logon domain	
Phone number		Prompt for phone number	
Area code: Phone number:		Redialing options	
HTTT Alternate	es	Redial attempts: 3	
Country/region code:		Time between redial attempts: 1 minute	
	- 1	Idle time before hanging up: never	
Use dialing rules		Redial if line is dropped	
Chamilton in tarbhar ann ann atad			
Show icon in taskbar when connected		<u>×.25</u>	
			Connect
	Cancel	ОК	Cancel
Dial-up Connection	? ×	Dial-up Connection	? ×
General Options Security Networking Sharing		General Options Security Networking Sharing	
C Security options		The of follow second an adfine	
ITypical (recommended settings)		Type of dial-up server I am calling:	
Validate my identity as follows:		PPP: Windows 95/98/NT4/2000, Internet	
Allow unsecured password	ㅋ	2	Settings
Automatically use my Windows logon name and			
password (and domain if any)		Components checked are used by this connection:	
Require data encryption (disconnect if none)		☑ Y Internet Protocol (TCP/IP) □ - □ - File and Printer Sharing for Microsoft Networks	
C Advanced (surface as Vines)		Client for Microsoft Networks	
C Advanced (custom settings) Using these settings requires a knowledge			
of security protocols.	IS		
		Install Uninstall Prop	perties
Interactive logon and scripting			
Show terminal window		Description	
Eun script:	7	Transmission Control Protocol/Internet Protocol. The wide area network protocol that provides communicat	
Edit Browse.		across diverse interconnected networks.	
	Cancel		Cancel
	sancer	UK	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 engineering@rtwireless.co.nz .

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