WLAN 802.11a+b+g Mini-PCI Module

Model

EM-500AG

OEM Installation Manual

1.The OEM integrator couldn't provide any information to end user regarding how to remove or install the device.

2.The module is sold only to the OEM integrators & the manual is valid only for the OEM manufactures.

3. Changes or modifications to this equipment not expressly approved by WNC may void the user's authority to operate this equipment.

Version: 1.0

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

This module is restricted to mobile configuration. To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. This transmitter module must not be co-located or operating in conjunction with any other antenna in conjunction with any other antenna or transmitter.

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1. Introduction

1.1 The WLAN 802.11a+b+g mini-PCI Module

Thank you for purchasing the WLAN a+b+g mini-PCI Module that provides the easiest way to wireless networking. This Manual contains detailed instructions in the operation of this product. Please keep this manual for future reference.

1.2 Hardware Installation & Antenna Information

Module is installed in the Personal Computer, located either under the keypad or on the bottom side of the Personal Computer (see the following diagrams).





• Antennas are embedded in the two sides of the panel (see the two antennas shown below)



Only the DT3 antenna can be used.

Important Note:

This module is restricted to mobile configuration. The antennas of module should be installed and operated with minimum distance 20cm between the radiator and all persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The module is for OEM installation only and can not be sold to end user directly.

*Caution !!

(1). This module cannot be bound in a tablet computer for RF exposure issues. (See label 1)

(2). Due to the RF exposure issues, this module can be used in a laptop computer in normal operation, but cannot be used when it is put above the lap and the LCD screen is in the closed position. (See label 2)



Label 1



Label 2

(3). This module must be labeled with FCC ID. (See label 3)



Label 3

(4). If the FCC ID is not visible when the module is installed inside another device, then the outside of device must also display a label referring to the enclosed module. The exterior label can be " Contains Transmitter Module FCC ID: NKREM500AG" or similar wording. (See label 4)



Label 4

Please put Label 2 & Label 4 to the enclosure of end

product to note the end user.

(5). The user manual for end users must include the following information in a prominent location.

" IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

2. Driver/Utility Installation / Uninstallation

2.1 Installation

Note! The Installation Section in this User Manual describes the first-time installation for Windows. To re-install the driver, please first uninstall the previously installed driver. See Chapter 2.2 "Uninstallation" section in this User Manual.

Follow the steps below to complete the driver/utility installation:

1. Insert the Installation Software CD into the CD-Rom Drive.



2. Click "Next".

3. Read the License Agreement and click "Yes".

icense Agreement	
Please read the following license a	greement catefuly.
Press the PAGE DDWN key to see	a the rest of the agreement.
All rights reserved. No part of this p stored in a retrieval system, or tran- torm or bulace, means, claritoric u	publication may be reproduced, transmitted, transcribed, islated into any language or computer language, in any machanical magnetic antical character language of
otherwise, without the prior written	nextanitat negress, spinot, creantat nemaalo
otherwise, without the prior withen	next an induction of this company

4. Click "Next" to continue or click "Browse" to choose a destination folder.



5. Click "Next".

etup will add program icons to the Program	Folder listed below	. You may type a	new folder
rogram Folders:	and a second state of the		
WLAN a+g mini-PCI M oc lule			
xisting Folders:			
Accessories ACD Systems Microsoft Web Publishing Serv-U FTP Server Startup WinRAR			

6. Click "Yes" to create a shortcut icon on your desktop.



7. Click "Finish".

WLAN a+g mini-PCI Module Se	tup	X
	InstallShield Wizard Complete Setup has finished installing WLAN a+g mini-PCI Moctule on	
	your computer.	
	<back cancel<="" finish="" td=""><td>1</td></back>	1

8. You should now see the shortcut icon on your desktop.



2.1.1 Additional Setup Processes

During software installation procedure, each operating system may prompt different specific options:

- 1. **Windows 98SE:** The system will request the original Windows CD during the installation process. When the installation is finished, you'll have to restart your computer.
- 2. Windows Me: Please restart your computer when the installation is finished.
- 3. Windows 2000/XP: Select "Install the software automatically" when the window with this option appears, and then click "Next" to continue installation.

2.1.2 Verifying the Driver

1. Windows 98SE/Me:

- Step 1. Right-click "My Computer" icon on the desktop and choose "Properties".
- Step 2. Select "Device Manager" tab and open "Network adapters". You should see your WLAN a+b+g mini-PCI Module in the list. Highlight it and click "Properties" button.
- Step 3. From the "Device status", you should see the line "This device is working properly". If, instead, you see error messages displayed, please remove this Adapter (highlight this Adapter and click "Remove" button). Restart your PC and go through the installation process again.

2. Windows 2000:

- Step 1. Right-click "My Computer" icon on the desktop and choose "Properties".
- Step 2. Select "Hardware" tab and click "Device Manager". Open "Network adapters". You should see your WLAN a+b+g mini-PCI Module in the list. Right-click this Adapter and choose "Properties".
- Step 3. From the "Device status", you should see the line "This device is working properly". If, instead, you see error messages displayed, please uninstall this Adapter (right-click this Adapter from the "Network adapters" list and choose "Uninstall"). Restart your PC and go through the installation process again.

3. Windows XP:

- Step 1. Click Start>Control Panel> System.
- Step 2. Select "Hardware" tab, and click "Device Manager". Open "Network adapters". You should see your WLAN a+b+g mini-PCI Module in the list. Right-click this Adapter and choose "Properties".
- Step 3. From the "Device status", you should see the line "This device is working properly". If, instead, you see error messages displayed, please uninstall this Adapter (right-click this Adapter from the "Network adapters" list and choose "Uninstall"). Restart your PC and go through the installation process again.

2.2 Uninstallation

Note! Before uninstallation, please close all running programs.

- 1. Click <u>Start>Programs>WLAN a+b+g mini-PCI Module>UnInstall WLAN a+b+g</u> <u>mini-PCI Module</u>.
- 2. Choose "Remove". Click "Next".



3. Click "OK" to start Uninstall.



4. Click "Finish". Uninstall is now completed.



3. Connecting to an Existing Network

 Double click the shortcut icon of "WLAN a+b+g mini-PCI Module" on the desktop, and the "WLAN a+b+g mini-PCI Module Configuration" window will appear.

Due file 1 int				Information List	Detail List	
Profile List				Selected Profile Information	1	
Default		Now		 Configuration Name 	Default	
		NEW		 Network Name 		
				Network Connection	AP(Infrastructure)	
	89	Modify		= WEP	Disabled	
			E 😼	Link Information		
	_	Delete	- 22	 Network Name 		
		Delete		Network Connection	AP(Infrastructure)	
	-			 Security 	None	
6	\checkmark	Apply		= Channel	3	
Enable Smart	Selection	10000000		 Transmission Rate 	1 Mbps	
		<i></i>		 Signal Strength 	24%	
vailable Networks						
Network Name	Connection Mode	Channel	WEP	Signal Strength	Network Connection	
	Pre	ss Refresh bi	utton to initi	ate site survey process		

2. Click "Refresh" button Prefresh and all available networks will be listed.

Profile List Information List Default Default New Selected Profile Information Default Image: Selected Profile Information Network Name Default Image: Selected Profile Information Network Connection AP(Infrastrument) Image: Selected Profile Information Network Connection AP(Infrastrument) Image: Selected Profile Information Network Connection AP(Infrastrument) Image: Selected Profile Information Selected Profile Information Network Connection Image: Selected Profile Information Network Connection AP(Infrastrument) Image: Selected Profile Information Selected Profile Information Selected Profile Information Image: Selected Profile Information Network Connection AP(Infrastrument) Image: Selected Profile Information Selected Profile Information	Detail List
Default New Image: Selected Profile Information - Configuration Name Image: Selected Profile Information - Configuration Name Image: Selected Profile Information - Configuration Name Image: Selected Profile Information - Network Name Image: Selected Profile Information - Network Connection Image: Network Name VM Network Name VM Network Connection APply Network Connection AP(Infrastru Security None Ochannel 5	ructure)
Modify Modify Delete Apply Apply Modify Channel Network Name Network Connection AP(Infrastru Network Name Network Name Network Name Network Name Network Name Security None S	ructure)
Delete Delete Apply Apply Delete Channel S	
Apply Security None Channel 5	ructure)
Enable Smart Selection = Transmission Rate 1 Mbps = Signal Strength 36%	
wailable Networks	
Network Name Connection Mode Channel WEP Signal Strength Network Conne	nection _
🗼 NC50 B 6 Enable 62% Infrastuctur	ure
🥐 NC B 5 Disable 36% Infrastuctur	ire.
	-11 -C.
👗 NC50 B 2 Enable 31% Infrastuctur	ure
À NC50 B 2 Enable <u>31%</u> Infrastuctur À NC50 B 4 Enable <u>30%</u> Infrastuctur	ure -

 From the list of "Available Networks", choose one network by double clicking the Network Name. One of the following dialog boxes appears. Click "Yes" to continue.

Connection wizard	Connection wizard
Network name (SEID) : WM4 This is a volveless access point. To access this network, click Yes.	Network name (SSID) : NOSO This is a whatese access point This network requires the use of a network key (MEP). To access this network, click Yes.
Cancel	Cancel Cancel

4. If the WEP of the chosen network is enabled, the "Security Setting" tab is displayed. Enter the correct **Encryption Keys** and click "OK". You need to contact the network administrator for the values the **Encryption Keys**.

-			_
Encryption Keys (He	x u-9 A-F)	Key Length	
Unique Key:		64 (40+24) 5 chars	•
Shared			
First:		64 (40+24) 5 chars	-
Second:		64 (40+24) 5 chars	•
Third:		64 (40+24) 5 chars	•
Fourth:		64 (40+24) 5 chars	•

8. Once connected (when you see the icon 😰 or 🍣 in front of the name of the Connected Network), you can check the signal strength from the icon 🗟 in the Windows System Tray.

3.1 Additional Note for Windows XP

In Windows XP, it is recommended that you use the WLAN a+b+g mini-PCI Module Configuration Utility. Before using the Utility, please follow the steps below to disable the Windows XP Zero Configuration:

Option 1:



- 1. Double click the shortcut icon to open the Utility.
- 2. From the Windows System Tray, you should see the signal icon. Right-click it and select "Disable Zero-Configuration".

Open Utility	
Disable Adapter	A REAL PROPERTY AND A REAL
Turn radio on	😲 Notification 🛛 🗶 🖉 🖉
Disable Zero-Configuration	WinXP Zero Configuration is disabled
Eixt	EN 🔿 🖉 🖉 🔩 11:37 AM

Option 2:

- 1. Go to "Control Panel" and double click "Network Connections".
- Right-click "Wireless Network Connection" of "WLAN a+b+g mini-PCI Module", and select "Properties".

S Network Connections			
File Edit View Pievantes Table	Advasced (telp		
3 mi · 0 · 3 P	esedi 🔂 milders 🛄+		
Autore Careetore			e 🚺 🐼
network tasks	LAN or High-Speed Internet		
Galda a new canadon Set up a here or and office relevant. District Harnatowsk dootso Fernance felo convertaer	Notanat in the	Dado Dado View Avaliable Wireless Hatworks Score Legen	
Change settings of the connection	Local Area Cornects Incidence, in Copyri	Add tu Bridge	
Other Places (5)	Neeks would co	Coale Statut Intes Examp	
Contorrare	-T	Properties	

3. Select "Wireless Networks" tab, and uncheck the check box of "Use Windows to configure my wireless network settings", and then click "OK".

Like Windows to continue to	a usireless me ha	ak setings
Audult and a second		
Available networks: To connect to an available net	work: nick En	diaure :
@ NC80	6	Employe
@NC		Rohpsh
Second Second	×	
Preferred networks		
Preferred networks Automatically connect to wall federe	20.000	e ha sedar bisa
Professed notworks. Automatically commuted to avail factors		ta ada biai
Professed networks: Automatically commutities avail fadion		e fas order Ester Moren isp Hover Dever
Preferred networks Automatically connect to avoid taken Add Resource	an airean an	the order Later More up Nove boost

4. Creating a New Network

1. In "WLAN a+b+g mini-PCI Module Configuration" window, click "New"

H 🏚 S	Information List slacted Profile Information	DetailList		
H 🗊 S	sisched Profile Information			
	and the second se			
	Configuration Name	Default		
	Network Name			
	Network Connection	AP(Intrestructure)		
1250	WEP	Disabled		
E 🐕 LI	nk Information			
10256	Network Name	WN		
1.1	Network Connection	AP(intrestructure)		-
	Security	None		123
	Channel	5		18
	Transmission Rate	1 Mbps		
1.1	Signal Strength	36%		-
				-
WEP	Signal Strength	Network Connection		
Enable	6236	Intrastucture	- 11	
Disable	36%	ini/astucture		
the second se				
Enable	31%	Intrastucture	_	
Enable Enable	31% 30%	intrastucture Intrastucture		
	KVEP	Kerker & Signal Strength Kerker Kerkerkerkerkerkerkerkerkerkerkerkerkerke	KEPKOK Connection WEP Wet Wet Wet Wet Wet Wet Wet Security None Channel S Transmission Role S Signel Strength Network Connection S Signel Strength Network Connection S	KEVACK Connection WEP Signal Strength Network Connection Security Kone Security None Channel Security None Security None

2. Select the "Profile Editor" tab and check the check box of "Enable Advanced Setting" to edit all settings. Click "OK" to save the settings.

Profile Items	Content
Configuration Name	
Network Name(SSID)	
Network Connection	AP(Infrastructure)
Power Saving	Normal
Wireless Mode	Auto
Ad Hoc Net Start	802.11a
802.11a Turbo	Disabled
802.11b Range	Normal Range
Encryption Type	Auto
Scan Mode	Auto
Transmit Power	Full Power
QoS	Disabled
Country	UNITED_STATES
2.4 GHz Preamble	Short and Long
Enable Advanced Setting	ng Default

3. Click the "Security Setting" tab and set the Encryption Keys. Click "OK" to save the settings. When you are creating an Infrastructure mode and IEEE802.11b standard network, please enter a passkey in "Shared Keys: First" field. For Infrastructure mode and IEEE802.11a standard network, you may enter a passkey in either "Unique Key" field or "Shared Keys: First" field. If you are creating an Ad-Hoc mode network, enter a passkey in "Shared Keys: First" field.

Enable Security	Default Encryption Key:	1	-
Encryption Keys (He	x 0-9 A-F)	1	
Unique Key:		Key Length	-
Shared		Terr (10-24) o chare	
First:		64 (40+24) 5 chars	-
Second:		64 (40+24) 5 chars	-
Third:		64 (40+24) 5 chars	•
Fourth:		64 (40+24) 5 chars	•
-			

4. The new Network Name is then listed in the Profile List.

Note! For details of each setting, please read Chapter 5 "Configuration".

5. Configuration

5.1 Device Configuration

You can set the Wireless Network Adapter to work in either "infrastructure" mode or "ad hoc" mode.

Infrastructure Mode

In infrastructure mode, devices communicate with each other by first going through an Access Point (AP). Wireless devices can communicate with each other or can communicate with a wired network. When one AP is connected to wired network and a set of wireless stations, it is referred to as a BSS (Basic Service Set).



Ad Hoc Mode

Ad-hoc mode is also called "peer-to-peer mode" or "Independent Basic Service Set (IBSS)". In ad hoc mode, devices communicate directly with each other without using an Access Point (AP).



5.1.1 Non-Default Settings Configuration

1. Open "WLAN a+b+g mini-PCI Module Configuration" by double clicking the shortcut icon on the desktop.

Note! If there's no network name listed in the "Profile List", click "Refresh" button and double click a Network Name from "Available Networks". The chosen Network Name will then be listed in the Profile List.

Modify

2. From the Profile List, select one Profile and click "Modify" button

Profile Lint		-		Information List	Detai List	12
1234 Delaut		New	H ()	Selecte II Profile In Formation Configuration Name Natwork Name Network Connection Vep) NC NC AP(infrestructure) Disable d	
F Enable Bma	1Belecton	Delete Apply	E %	Uni Information - Network Name - Network Connection - Security - Channel - Transmission Rels - Signal Strength	1234 AP(Infractructure) None 1 1 Mbps 20%	
Enable Broad	1Belecton	Delete Apply	1 WE 1	Uni Monndion • Network Name • Network Connection • Security • Clernel • Transmission Relat • Signel Strength	1234 AP(Intractureture) None 1 1 Mapo 20%	
T Enable Smal	1Belecton	Delete Apply		Uni Internation - Network Name - Network Connection - Socially - Chronel - Transmission Relat - Signel Strength - Signel Strength	1234 AP(rinadructure) None 1 1 Migus 20%	
Enable Smal	1Balecton	Delete Apply Chunnel	USEDIE Disable Enable	Uni Internation Hettwork Connection Hettwork Connection George Chernel Chernel Signel Strength Signel Strength 37% 30%	1234 AP(rinadhuchurs) None 1 1 Maps 20% Network Connection Infraducture	
Enable Small	1Baliscton	Delete Apply Churnel 6 2	UNEP Disable Enable	Uni Mitorindion Hétwork Connection Security Chennel Trammétodon Rale Signel Strength Signel Strength 37% 36% 29%	1234 AP(htmathucture) None 1 1 Meps 20% Network Connection Infrastucture Infrastucture	-
Enable Braz Enable Braz Enable Braz Note N	1Belecton	Delete Apply Churnel 6 2	UNEP Disable Enable Disable	Uni Internation Network Name Network Connection Signel Strength Signel Strength 20% 20% 20% 20%	1234 AP(hinadhuchurs) None 1 1.Migus 2006 Network Connection Infrastluchurs Infrastluchurs Infrastluchurs	

3. Select "Profile Editor" tab and edit the settings. Click "OK" to save the modifications.

rofile Editor Security Se	atting TCP/IP Property
Profile Items	Content
Configuration Name	
Network Name(SSID)	
Network Connection	AP(Infrastructure)
Power Saving	Normal
Wireless Mode	Auto
Ad Hoc Net Start	802.11a
802.11a Turbo	Disabled
802.11b Range	Normal Range
Encryption Type	Auto
Scan Mode	Auto
Transmit Power	Full Power
QoS	Disabled
Country	UNITED_STATES
2.4 GHz Preamble	Short and Long
Enable Advanced Se	tting Default

- Configuration Name: This name identifies the configuration. This name should be unique.
- Network Name (SSID): The name of the wireless network. This name cannot be longer than 32 characters. If the field is set to be "ANY" or is left blank, your computer will connect to an AP with the best signal strength.
- Network Connection: Specifies the mode of the network. Two options are "Infrastructure" and "Ad Hoc".
- Power Saving: Three power management options are "Off", "Normal" and "Maximum". In Ad Hoc mode, Power Savings function cannot be enabled.
- Wireless Mode: Three options are "802.11b", "802.11a" or "Auto". "Auto" allows the use of either 802.11a or 802.11b mode.
- Ad Hoc Net Start: Specifies a band to establish an Ad Hoc network if no matching SSID is found. Four options are available: 802.11b, 802.11a, 802.11aTurbo and 802.11g (Pure g).
- **802.11a Turbo:** Disables or enables the 802.11a Turbo mode.
- **802.11b Range:** Two options are "Normal Range" and "Extended Range".
- Encryption Type: Three options are "WEP", "AES" and "Auto". WEP stands for Wired Equivalent Privacy, and AES stands for Advanced Encryption Security. AES provides much higher level of security. "Auto" allows the Adapter and AP to negotiate the encryption type. If AES is not available, WEP is used. By default, the Adapter is set to "Auto" and will attempt to use AES first. If the AP supports WEP only or is configured for WEP only, the Adapter will automatically use WEP.
- Scan Mode: Three options are "Active Scan", "Passive Scan" and "Auto".
- Transmit Power: Five options are "Full Power", "50% Power", "25% Power", "12% Power" and "Lowest Power".
- QoS: Stands for Quality of Service. Disables or enables the Adapter to cooperate in a network using QoS.
- **Country:** Select the country where you are. Different countries have different regulations. Please do not illegally use the un-licensed channel.
- 2.4 GHz Preamble: Allows Ad Hoc compatibility with other 2.4 GHz devices. Two options are "Short and Long" and "Long only".

4. Select "Security Setting" tab and edit the settings. Click "OK" to save the settings.

Enable Security	Default Encryption Key:		•
Encryption Keys (He	(0-9 A-F)	Key Length	
Unique Key:		64 (40+24) 5 chars	-
Shared			
First:		64 (40+24) 5 chars	•
Second:		64 (40+24) 5 chars	-
Third:		64 (40+24) 5 chars	•
Fourth:		64 (40+24) 5 chars	•

- Enable Security: Enables the WEP security when the check box is checked, and disables the WEP security when the check box is cleared.
- Default Encryption Key: Allows you to choose one type of encryption key to be used (Unique, First, Second, Third, or Fourth) from the drop down menu.
- Unique Key: Defines the unique encryption key for security for the current network configuration. Not used in Ad-Hoc mode. To use Unique Key for security, this field should be populated. To use AES, you must specify a Unique Key.
- Shared Keys: Defines four shared encryption keys. To use Shared Keys for security, at least one Shared Key should be populated.
- Key Length: Defines the length of each encryption key. When the length is changed to be a smaller number after a key is entered, the key is automatically truncated to fit. If the length is increased again, the key will not be automatically updated to the previous value.

5. Select "TCP/IP Property" tab. Enter the settings and click "OK" to save the settings.

rofile Editor Security Setting TCP/IP Pr	operty				
You can get IP settings assigned aut capability. Otherwise, you need to as appropriate IP settings C Obtain an IP address automatical	omatically if sk your netv lly	your ne vork adr	twork s ninistrat	supports th for for the	is
🕞 🖲 Use the following IP address —					
IP address :			-		
Subnet mask :		÷	-		
Default gateway :				÷	
C Obtain DNS server address auto	matically dress				
Preferred DNS server :			22	<i></i>	
Alternate DNS server :			•		

- If the network uses DHCP server, choose "Obtain an IP address automatically".
- If the network does not use DHCP server, choose "Use the following IP address" to set the relative settings. For the IP configuration information, please contact the network administrator.

5.1.2 Default Settings Windows XP Zero-Configuration

You may also choose the default parameters and directly proceed to Windows XP zero-configuration through the steps below:

- 1. Go to "Control Panel" and open "Network Connections".
- Right-click the Wireless Network Connection of "WLAN a+b+g mini-PCI Module", and make sure this connection is Enabled.
- Right-click the Wireless Network Connection of "WLAN a+b+g mini-PCI Module", and then click "Properties".
- 4. Select "Wireless Networks" tab and select "Use Windows to configure my wireless network settings" check box.
- **Note!** Clear the check box of "Use Windows to configure my wireless network settings" will disable automatic wireless network configuration.