



mēa

Draft

WMC6300

Wireless Modem Card

User's Guide

(PocketPC 2002)

Foreword

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Table of Contents

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Introduction.....	1
System Requirements	1
General System Requirements.....	1
What's in the Box.....	2
WMC6300 External Connections and Lights.....	3
INSTALLING THE WMC6300 WIRELESS MODEM CARD	4
Install mēa Software (PocketPC 2002 Clients Only).....	4
Connect the Antenna Assembly	6
Connect the Magnetic Antenna Assembly (Optional Equipment)	6
Insert the WMC6300 Wireless Modem Card	8
Configuring the DNS Address.....	9
Removing the WMC6300 Wireless Modem Card.....	10
Uninstalling Application Software	11
OVERVIEW OF THE MESHTRAY APPLICATION.....	12
MeshTray™	12
MeshTray Status	13
Starting MeshTray.....	13
Terminating MeshTray.....	13
CUSTOMER SERVICE INFORMATION.....	14
LICENSE AND WARRANTY INFORMATION	15
REGULATORY INFORMATION.....	20
FCC Information.....	20

MeshNetworks

FCC RF Radiation Exposure Statement	20
Safety Information for the mēQ WMC6300.....	21
Safety Certification	22

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Introduction

Thank you for purchasing the **WMC6300** Wireless Modem Card. To get started proceed to the Installing the WMC6300 Wireless Modem Card section of this document.

mēa is a wireless communication system capable of supporting high data rate mobile communication at vehicular speeds. The mēa system is designed to allow standard client hosts with a PCMCIA interface to have a mobile broadband Ethernet connection. The mēa system works transparently to the client host in a manner similar to an Ethernet connection. mēa provides Internet Protocol based data and location services. Its geo-location accuracy and availability is better than ± 10 meters within 1 second. It is capable of supporting subscribers traveling up to 100 miles per hour.



Figure 1. MeshLAN WMC6300 Wireless Modem Card

The mēa system provides a secure and reliable transport for the client host. The client host may still require configuration and authentication before it will be allowed to access services on the core network. Access to the core network is controlled by the network administrator according to current operating practice. This document provides detailed installation and configuration instructions for use when installing the mēa WMC6300 Wireless Modem Card and its Software.

System Requirements

General System Requirements

For best results, ensure the computers meet the following minimum requirements:

- PDA running the Microsoft PocketPC 2002 operating systems, with an available Type II PCMCIA slot
- Intel based laptop computer running the Microsoft Win2000 or WinXP operating system, with the following:
 - Keyboard
 - Mouse
 - CD-ROM drive or DVD drive
 - ActiveSynch utility program installed

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- Cable to connect the PC and the PDA

What's in the Box

Each mēa WMC6300 Wireless Modem Card is a full-featured wireless networking interface. The following is a list of the items provided with each WMC6300 card:

- mēa WMC6300 Wireless Modem Card
- Antenna
- mēa WMC6300 Software and Documentation CD

WMC6300 External Connections and Lights

The WMC6300 Wireless Modem Card is designed for insertion into an industry-standard Type II PCMCIA card slot located in a Host device. The WMC6300 has an antenna port to connect the external antenna and two LED Indicators. The Red LED is the transmit indicator and the Green LED is the receive indicator as shown in Figure 2.

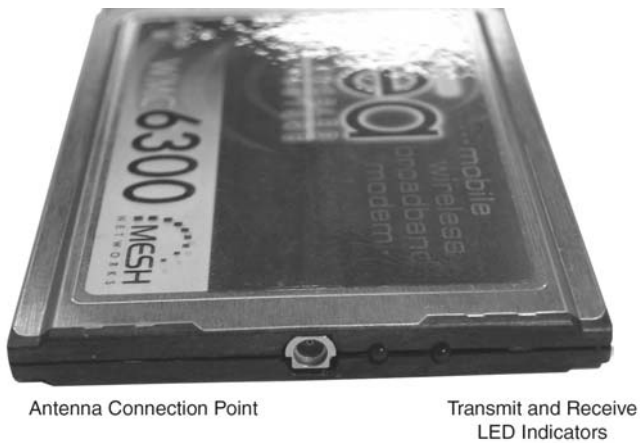


Figure 2. WMC6300 Antenna Port and LED Indicators

Installing the WMC6300 Wireless Modem Card

Install mēa Software (PocketPC 2002 Clients Only)

Please install the mea Software before you insert the WMC6300 card. Complete the following procedure to install the mea software:

1. Connect the PC to the PDA with the cable supplied by the PDA manufacturer. Initiate an ActiveSynch session between the computer and the PDA. Note: Refer to the PDA manufacturer's documentation for connection and operational instructions..
2. Insert the mea Software and Documentation for PocketPC CD into the PC's CD-ROM drive.
3. On the PC, navigate to the CD-ROM drive using "My Computer." Double click on "mea_pocketpc2002_setup.exe" to start the software installation process.
4. The mea "Welcome" installation window will be displayed as shown in Figure 3. Click on the "Next" button to continue the software installation process.

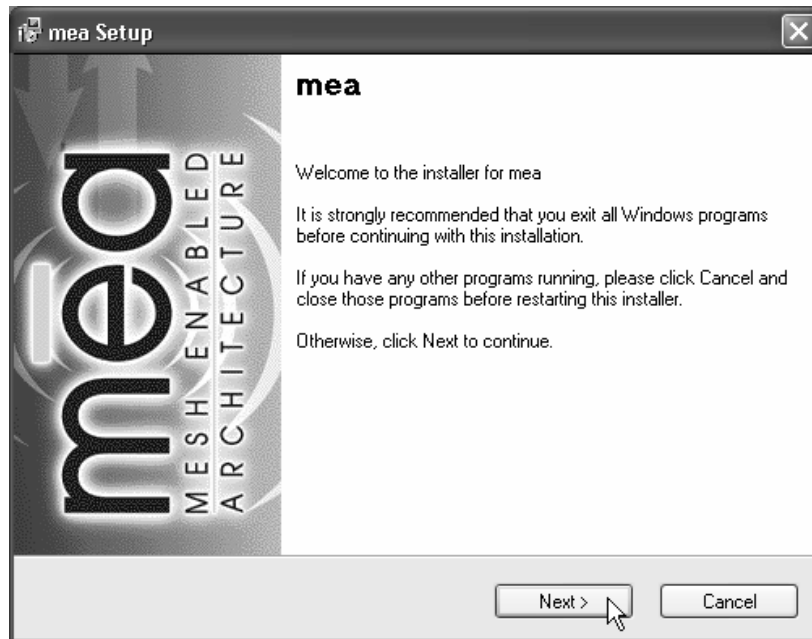


Figure 3. mēa Installation Welcome Window

- The "License Agreement" window will be displayed. Please review the End User License Agreement. Use the scroll bar located at the right side of the window to display the complete text message.

Note: If you do not agree with the terms of the license agreement, click on "**Cancel**" and the installation will be terminated.

To continue with the installation process, click on the "**YES**" button as shown in Figure 4 and then click on "**Next**" to continue the installation.

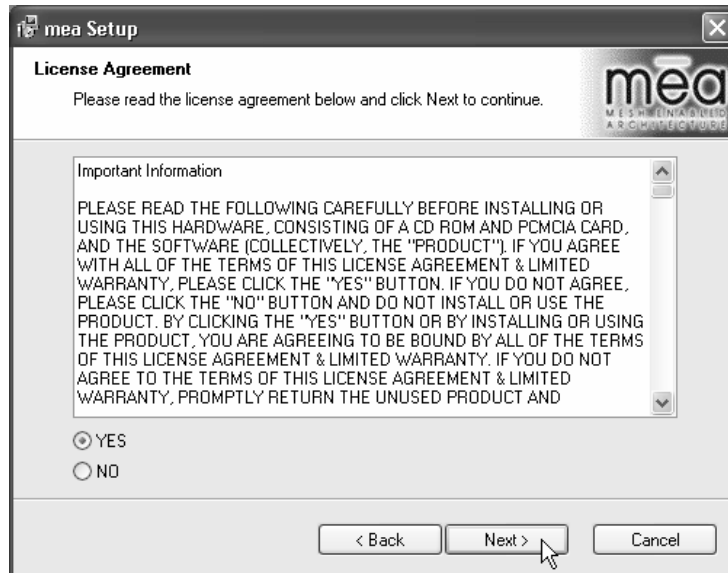


Figure 4. Agree with License Agreement Window

- The Start Installation window will be displayed as shown in Figure x. Verify that you have an active connection to the PDA, and then click on "Next" to continue.

<insert new figures>

- The Install Program will connect to your PocketPC 2002 device to complete the installation.
- A window will be displayed asking for permission to install the drivers to the default directory. Select the "yes" button to continue the process.
- The Installer will now move all of the necessary files onto the PocketPC device. The installation will then ask you to verify that there are no additional steps required on the PocketPC. None are required. Select the "OK" button.
- The "Installation Complete" window will be displayed as shown in Figure x. Click on the "Finish" button to complete the procedure.
- Reboot the PDA.

Connect the Antenna Assembly

Complete the following procedure to connect the Antenna Assembly to the WMC6300..

1. Locate the Antenna and insert the connector into the WMC6300 antenna port as shown in Figure 5.

Note: The connector will “snap” into place when fully inserted.



Figure 5. Attach Antenna to the WMC6300

Warning

Use only the MeshNetworks supplied antenna.

Use of another antenna is prohibited and violates FCC regulations.

Never use the WMC6300 with the Antenna disconnected from the Card.

Connect the Magnetic Antenna Assembly (Optional Equipment)

Complete the following procedure to install the Magnetic Mount Antenna on the rooftop of a vehicle. (The cable length of the Antenna is approximately 12-feet.)

1. Attach the Magnetic Antenna to the metal rooftop of the vehicle so that the antenna is in a vertical orientation.

Caution: The base of the antenna contains a powerful magnet that secures the antenna to the rooftop. Use care when attaching the antenna

2. Route the remaining 12-foot cable as required to arrive at the Host Computer.

Warning

Never use the WMC6300 with the Antenna disconnected from the Card.

3. Insert the Antenna Cable Connector into the WMC6300 antenna port as shown in Figure 6. **Note:** The connector will “snap” into place when fully inserted.



Figure 6. Attach Magnetic Mount Antenna to the WMC6300

Insert the WMC6300 Wireless Modem Card

Complete the following procedure to install the WMC6300 Wireless Modem Card in the computer.

1. Locate an available Type II PCMCIA card slot in the PDA. If necessary, remove the slot dust cover from the slot.
2. To ensure the correct orientation of the card, insert the WMC6300 Wireless Modem Card into the computer's PCMCIA card slot with the label side up as shown in Figure 7.

CAUTION - Never force the card into the slot.



Figure 7. Installing the WMC6300 Wireless Modem Card

3. When the mēd WMC6300 card is detected, a “Start” window is displayed as shown. The “**Use server-assigned IP address**” radio button should be selected. Click on “**OK**” located in the upper right corner of the window.
4. A MeshTray icon will be displayed on the screen of the PocketPC. A “green” icon indicates successful connection to the network.



5. MeshTray executes automatically whenever the WMC6300 card is inserted into a PocketPC device. Tap on the MeshTray icon to display status information for the WMC6300 card as shown below.

Configuring the DNS Address

The Network Operator must supply the DNS IP address for an Internet connection. This address must be manually configured in order for web URLs such as www.meshnetworks.com to be resolved. Complete the following procedure to configure the address:

<need new procedure>

- 1.

This configuration should remain in the PocketPC host.

Removing the WMC6300 Wireless Modem Card

The WMC6300 should be ejected using the following procedure to ensure that power to the card is disabled prior to removal.

Warning

Always eject card when not in use.

1. Click on the Unplug or Eject Hardware icon in the system task bar
2. Select “**Safely remove mea PC Card**” from the popup menu as shown in Figure 8.

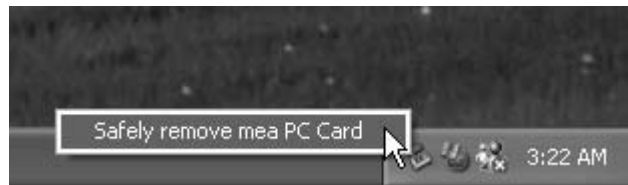


Figure 8. Eject the Hardware

3. Wait for a message that indicates that the device may be safely removed from the system as shown in Figure 9.



Figure 9. Safe to Remove the WMC6300 Card

4. Eject the WMC6300 from the PCMCIA slot as shown in Figure 10. Do not pull out by the antenna.

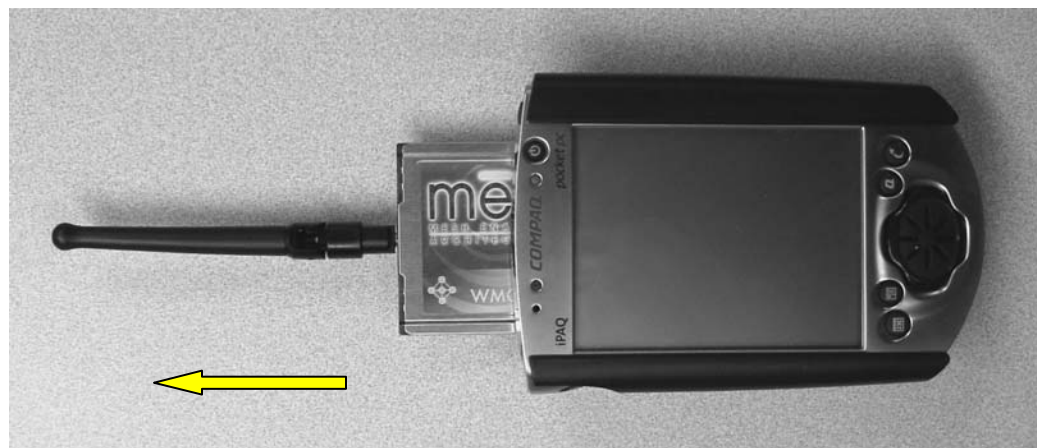


Figure 10. Removing the WMC6300 from the PCMCIA slot

Uninstalling Application Software

Complete the following procedure to “Uninstall” the mea Ad Hoc Routing Software:

<update procedure>

1. From the Start menu, select **Program Files**→mea→**Uninstall mea**.
Note: The mea software can also be uninstalled using “Add/Remove Programs” located in the Control Panel.
2. The Uninstall program will ask, “Are you sure you want to remove MeshNetworks Software...” as shown in Figure 11. Click on “**Yes**” to continue.

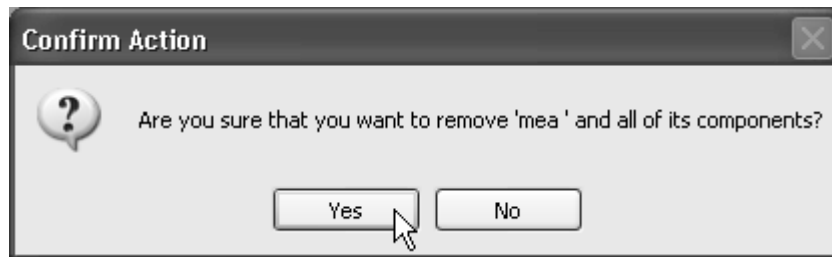


Figure 11. Confirm Uninstall

3. The “Removing Programs From Your Computer” window will be displayed while the mea software is uninstalled as shown in Figure 12. When the Uninstalling Software Process is complete, click on the “**Close**” button.

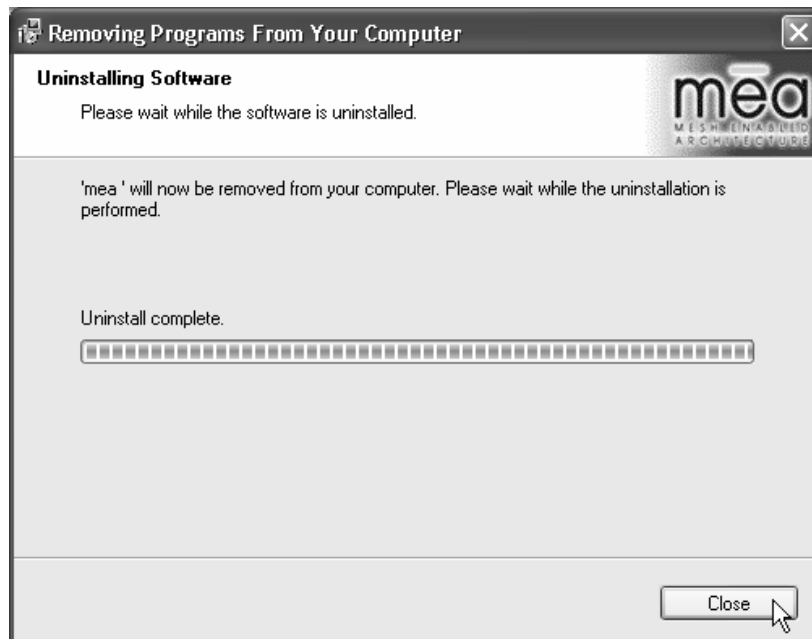
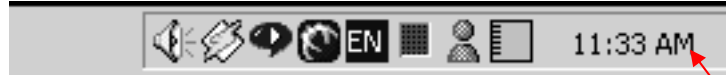


Figure 12. Removing Programs From Your Computer Window

Overview of the MeshTray Application

MeshTray™

MeshTray is a status application that reports vital and statistical information about the mēQ card. Because MeshTray is a “tray” application, it stays in the desktop system status tray when it is minimized as shown in Figure 13 and Figure 14. The MeshTray icon changes to indication of the state of the wireless interface. In Figure 13 the MeshTray icon is in an inactive or disconnected state.



Inactive MeshTray Icon

Figure 13. Inactive MeshTray Icon

The MeshTray icon shown in Figure 14 is currently associated with an AP400. The MeshTray icon displays the Link Strength to the associated IAP as color-coded bars. (More bars indicate greater Link Quality.)



MeshTray Icon

Figure 14. MeshTray Link Strength Indicator

Clicking on the MeshTray icon restores the application to a property sheet interface as shown in Figure 15.

MeshTray Status

When the utility is launched, MeshTray displays useful system information such as a description of the device, the MAC address of the node, the IP address of the currently associated IAP, and the type of device (i.e., Subscriber Device, Wireless Router or IAP). The Driver and Firmware version and the IAP Address are also displayed.

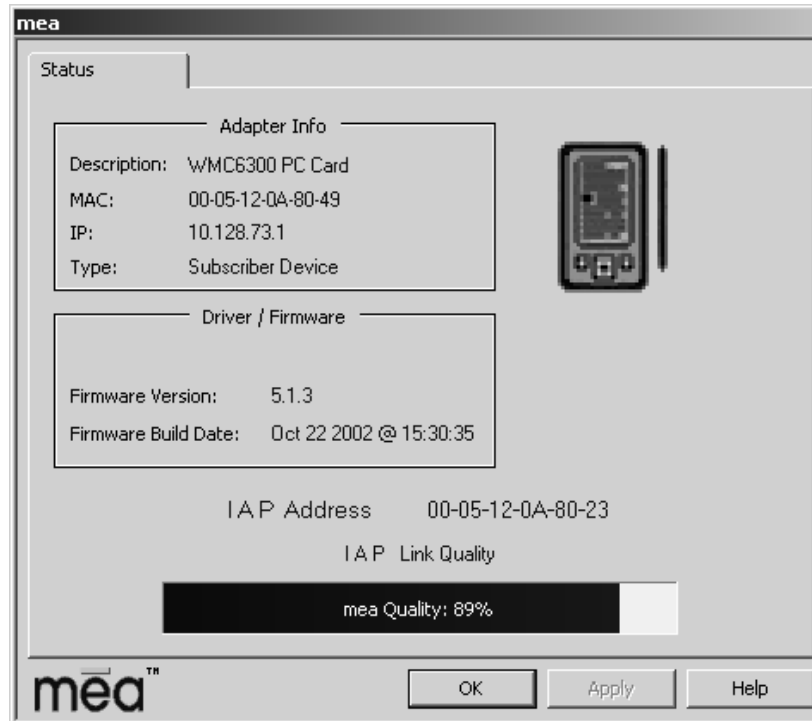


Figure 15. MeshTray Status Page

Starting MeshTray

During the software installation process, a MeshTray shortcut icon is installed on the users' desktop. To start the MeshTray application, double-click on the MeshTray icon.

Terminating MeshTray

If desired, the MeshTray application can be terminated by positioning the cursor over the MeshTray icon that is located in the Toolbar. Then, right-click on the MeshTray icon and select "Exit" as shown in Figure 16. The task is terminated and the icon is removed until the application is started again from the Start menu.



Figure 16. Exit MeshTray

Customer Service Information

For information about solving difficulties in setting up your mea WMC6300, please see the Frequently Asked Questions in the support page at <http://www.meshnetworks.com/>.

If you have read this document, reviewed the FAQ, and made every effort to resolve installation or operation issues and require assistance, please contact your mēQ WMC6300 supplier.

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Regulatory Information

FCC Information

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.

Federal Communications Commission (FCC) 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 commercial 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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the WMC6300 and radio or television receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the supplier of the WMC6300 or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement

1. **CAUTION:** This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
2. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Although this device complies with the FCC RF Exposure limits in multiple configurations of the antenna, we suggest that the antenna be positioned away from the body when transmitting in order to minimize the level of RF Exposure.

Safety Information for the mēa WMC6300

The Federal Communications Commission (FCC) with its action in ET Docket 96-8 has adopted a safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC certified equipment. MeshNetworks' mēa products meet the uncontrolled environmental limits found in OET-65 and ANSI C95.1, 1991. Proper operation of this radio according to the instructions found in this manual and the hardware and software guides on the mēa CD will result in user exposure that is substantially below the FCC recommended limits.

- Do not touch or move the antenna(s) while the unit is transmitting or receiving.
- Do not hold any component containing a radio such that the antenna is very close to or touching any exposed parts of the body, especially the face or eyes, while transmitting.
- Do not operate a portable transmitter near unshielded blasting caps or in an explosive environment unless it is a type especially qualified for such use.
- Do not operate the radio or attempt to transmit data unless the antenna is connected; otherwise, the radio may be damaged.

WARNING

Use the antenna supplied by MeshNetworks.

Use of other antennas is prohibited may violate FCC regulations.

NOTE: The manufacturer is not responsible for any unauthorized modifications to this equipment. Unauthorized modifications could void user's authority to operate device.

Safety Certification



Conforms to UL STD ANSI/UL 60950 3rd Edition

Certified to CAN/CSA C22.2 NO. 60950-00

Equipment shall be suitable for use in Air pressure: 86kPa to106kPa.