Cellular Modem Charging Cradle User Guide

Part Number: **PS6PMCW**

Compliance Notes

The information in this document is subject to change without notice.

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Box Contents

Please check the Modem Charging Cradle carton for the following required items:

- Modem Charging Cradle
- Power Adapter
- Quick install card
- Warranty card

For more information about these items see **More about the Box Contents** on page 4.

Table of Contents

Introduction

About the Modem Charging Cradle

The Modem Charging Cradle enables a connection to a remote server using the GPRS service of the GSM cellular network. Palm Tungsten E2 handheld users can access and transfer critical information as easily as making a phone call. The cradle communicates via serial transmission with the Palm handheld. Before it can transfer data over the cellular network, the cradle will require third party software to be installed on the handheld.

> **NOTE**
> Palm does not support HotSync over a serial connection, thus HotSync is not a supported application for this device.

Minimum Requirements

The following minimum requirements must be met for the network, handheld and desktop computer to work together:

- Palm Tungsten E2 or compatible handheld
- Power Adapter
- Modem Charging Cradle
- SIM card with activated data plan

Product Registration

Thank you for purchasing this Cradlepoint product. We strongly encourage you to register this product so that we may keep you notified of pertinent updates and relevant product information. Failure to register does not diminish your warranty rights. We provide free product support to registered users for the first 90 (ninety) days from the purchase date.

Registration may be completed online at: www.cradlepoint.com.

More about the Box Contents

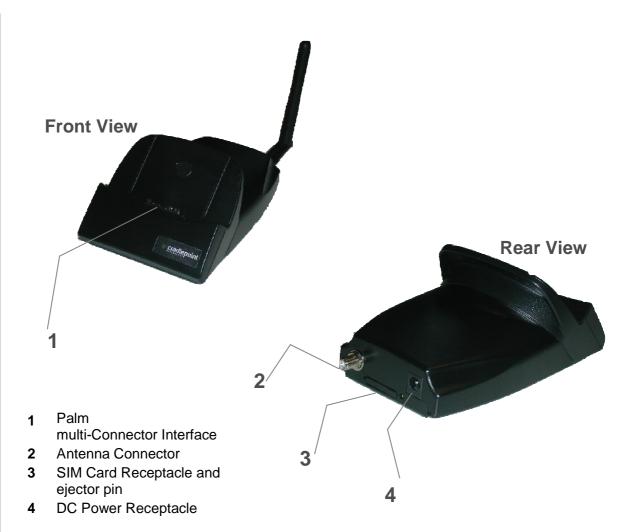### Modem Charging Cradle

The Modem Charging Cradle is designed for and communicates serially with the Palm Tungsten E2 or compatible handheld.

The cradle's custom-designed mechanical interface connects to the handheld in the front, and connects to required services using its three rear connections:

- A power receptacle for its power adapter
- Connector for Quad-band antenna
- SIM Card Receptacle

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Front View

Rear View

1

2

3

4

1 Palm
multi-Connector Interface
2 Antenna Connector
3 SIM Card Receptacle and
ejector pin
4 DC Power Receptacle

Power Adapter

The supplied power adapter is specifically designed for use with the Modem Charging Cradle.The power adapter converts standard household outlet voltage to the direct current voltage needed to power the cradle. Specifications: DC 5.0V, 3.0A

NOTE

The Modem Charging Cradle may only be used with the following power adapters:

Phihong Electronics Co., Ltd., Model PSA15R-050P. (Cradlepoint p/n 190438-000)

![cradlepoint TECHNOLOGY logo]

Chapter 1 – Preparing the Modem Charging Cradle

Installation Overview

Before using the Modem Charging Cradle, its hardware and software must be properly configured.

We have provided a step-by-step procedure to help you properly configure your new Modem Charging Cradle. The procedure is divided into two major tasks.

- Preparing the cradle for first use, and
- Configuring the Network Manager to communicate via the Modem Charging Cradle.

Preparing the Modem Charging Cradle for First Use

Perform the following steps:

1. Connect the Antenna to the Modem Charging Cradle until it is finger tight. Slide the rubber sleeve over the antenna so that it covers the metal connector on the cradle. Now bend the antenna so that it is pointing upward.

2. Insert your SIM card into the SIM card receptacle.

    a. With the tip of a pen or stylus push the ejector pin inward until the SIM tray is released. Pull the tray out from the Modem Charging Cradle.

    b. Place the SIM card into the tray so that the gold contacts of the SIM are visible and the notched corner of the card matches the notched corner of the tray.

    c. Reinsert the SIM tray into the Modem Charging Cradle.

3. Connect the Modem Charging Cradle to Line Power using the supplied power adapters listed on page 5

    NOTE
    The SIM must have an active data plan.

Configuring the Network Manager for Modem Communication

Perform the following steps:

1. Configure the Palm Tungsten E2 to work with the Modem Charging Cradle and a Cingular Data Plan:

    - Open *Prefs* from the Palm OS Main Menu.
    - Select *Communication → Connection.*

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- Create a *new connection* using these settings:
  - Name: *Custom*
  - Connect to: *Modem*
  - Via: *Cradle/Cable*
  - Dialing: *TouchTone*
- Select *Details*
  - Speed: *57,600 bps*
  - Flow Ctl: *Off*
  - Init String: +CGDCONT=1,"IP","isp.cingular";
- Select *OK* to save the details, then OK to save a new connection
- Open *Preferences* from the Palm OS Main Menu
- Select *Communication → Network* then insert these settings*:*
  - Service: Cradle
  - User Name: *ISPDA@CINGULARGPRS.COM*
  - Password: *CINGULAR1*
  - Connection: *Custom*
  - Phone: **99***1#*
- Select *Details:*
  - Connection Type: PPP
  - Idle Timeout: Never
  - Query DNS: Checked
  - IP Address: Checked Automatic
- Select *Script:*
  - Verify the only Script is :   ▼ End
- Select *OK*
- Select *OK*
- Select *Done.*

Making the Connection

Perform the following steps:

1. Turn on the Palm Tungsten E2.

2. Place the Palm Tungsten E2 into the Modem Charging Cradle

3. The cradle LED should alternately flash Green and Orange for approximately15-20 seconds and then go solid Green.   The system is now ready to make a connection.

   a. Open *Prefs f*rom the Palm OS Main Menu.

   b. Select *Communication → Network*

   c. Select *Connect*

4. Once the connection is established you can access the internet.

Chapter 2 – Product/Technical Support

Product Support

We are committed to providing our customers with first-class customer service and technical support. You can receive product support in a variety of ways:

North America Product Support
Cradlepoint Inc.
1199 Shoreline Lane
Boise, ID 83702
Phone: (208) 424-5054
Fax: (208) 429-6852
E-mail: support@cradlepoint.com
Web: www.cradlepoint.com

Technical Support

For additional information, please refer to the documentation that came with the *Palm Tungsten E2*. If you need additional assistance, you can contact technical support via e-mail at: support@cradlepoint.com or directly by phone at (208) 424-5054 and follow the voice prompts to our Technical Support personnel.

Before calling us, please have the following information ready:

- Your name, email address, and phone number
- Your Modem Charging Cradle's model number
- Your Modem Charging Cradle's serial number

> **NOTE**
> The Modem Charging Cradle serial number can be found on the product label on the underside of the cradle.

- The handheld's make and model (e.g., Palm Tungsten E2)
- A detailed problem description

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Appendix A – Regulatory Information

This device is designed to be compliant with rules and regulations in locations it is sold and will be labeled as required.

⚠️ **CAUTION**

The Cradlepoint Regulatory Engineering Department must approve changes or modifications not covered in this user guide in writing. Changes or modifications made without written approval may void the user authority to operate this equipment.

FCC

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

Cradlepoint, Inc. is not responsible for radio/TV interference caused by using unauthorized cables or by making unauthorized changes to this equipment.

European Union

This device complies with all requirements of the following specifications: EN301 489-1 V1.4.1, EN301 489-7 V1.2.1, EN301 511 V9.0.2, 3GPP TS51.010-1 v6.2.1, EN60950-1:2001.

Appendix B – Warranty

Cradlepoint, Inc. warrants this product against defects in materials and workmanship to the *original* purchaser (or the first purchaser in the case of the remanufactured product being sold) for a period of one (1) year from the date of shipment. This warranty is limited to a repair or replacement of the product. To obtain warranty service, the purchaser must first call Cradlepoint, Inc. for an RMA number, then return the product to Cradlepoint, Inc. for repair or replacement.

Purchaser shall prepay shipping charges for products returned to Cradlepoint, Inc. Cradlepoint, Inc. will pay for return of the products to purchaser, except that purchaser shall pay all shipping charges, duties, and taxes for products returned to Cradlepoint, Inc. from a country other than the United States.

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Within thirty (30) days of receipt should the product fail for any reason other than damage due to customer negligence; purchaser has the right to return the product for a full refund of the purchase price. If the purchaser wishes to upgrade or convert to another Cradlepoint, Inc. product within the thirty (30) day period, purchaser has the right to return the product and apply the full purchase price toward the purchase of the other product. Any other return will be subject to Cradlepoint, Inc.'s existing restocking policy.

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Glossary

GSM. Global System for Mobile communications

Modem. A device for transmitting data over telephone infrastructure.

PPP. The Point-to-Point Protocol. This is a communications protocol that was defined in RFC 1661, as the Internet standard for transmitting network layer IP packets over serial point-to-point links.