

Rack PDM Charger

INSTALLATION AND OPERATION MANUAL



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1. INTRODUCTION

This document describes how to install, configure and operate the Rack PDM Charger. This Rack Charger is aimed DT390, DT69x, DT4x3, Mitel 5613 and 5614 for MiVoice MX-ONE and Mitel 5603, 5604, 5607, 5624 for MiVoice Business and MiVoice 250.

Model	Features
Rack PDM Charger	<ul style="list-style-type: none">- Charging slots for handsets.- Ethernet and USB connection used for upgrade and configuration of handsets and Rack PDM Chargers (through a LAN or PC connection).

Note: For the Mitel 5624 (WiFi) wireless handset, this Rack PDM Charger only provides charging.

NOTE: The Rack PDM Charger is designed to be connected to an Ethernet based local area network.

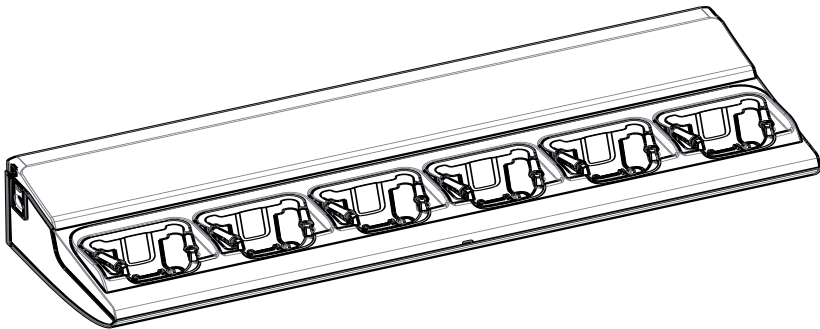
Each Rack PDM Charger can charge up to six handsets simultaneously.

The USB port on the Rack PDM Charger is used to connect the Rack PDM Charger to a CPDM3/WSM3, or to a PC running the Portable Device Manager (WinPDM/PDM). The CPDM3/WSM3 or WinPDM can be used to configure or upgrade either the Rack PDM Charger itself or any handsets placed in the Rack PDM Charger.

The Ethernet ports can be used to connect up to four Rack PDM Charger to a single LAN outlet.

See [2.1.5 Communication Cable Connection](#) on page 14 for more information on how to connect Rack PDM Chargers using the Ethernet and USB ports.

Figure 1. Rack PDM Charger.



This document is intended as a guide for installation, maintenance and troubleshooting.

	Power Supply for Rack PDM Charger	Building fuse for fixed installation
Supply voltage	100-240VAC/0.7A 50/60 Hz	10 A maximum

Installation Alternatives

NOTE: In the USA and Canada the Rack PDM Charger can only be installed as a single unit, serial configuration is not permitted.

- The Rack PDM Charger can be installed as a single unit. When installed as a single unit, the power cord with the C14 connector can be used together with a suitable extension cord, and can be plugged into a wall outlet. Up to four Rack PDM Charger single units can be connected to one LAN outlet.
- If more than one Rack PDM Charger is used in a serial configuration a fixed installation must be made. For safety reasons it is NOT allowed to supply more than one unit by the power cord with the C14 connector. When units are supplied in series, the installation must be made by an authorized electrician and the C14 connectors must be removed. A maximum of five units can be connected in serial power supply, but LAN serial connection is limited to four units.

NOTE: In Sweden, Norway and Finland a connection to protective earth (safety grounding) must be provided.

1.1 ABBREVIATIONS AND GLOSSARY

BPC	Battery Pack Charger
device	Can be a DECT or VoWiFi handset, an alarm transmitter, a pager or a charger developed to work together with the PDM/Device Manager. See respective manual for each device.
DHCP	Dynamic Host Configuration Protocol, a protocol for automating the configuration of computers that use TCP/IP
WinPDM/PDM	Portable Device Manager A Stand Alone (SA) application for administration through a cable connected PC.
USB	Universal Serial Bus: a serial bus standard to interface devices, for example connect computer peripherals such as mice, keyboards, scanners etc.

1.2 SAFETY

The Rack PDM Charger is connected to 100-240VAC/0.7A 50/60 Hz.

For safety reasons:

- the safety covers on top of the supply voltage terminal blocks must be mounted to prevent hazardous situations, such as an electric shock.
- when servicing the units the mains power supply cable must be disconnected.

NOTE: For PERMANENTLY CONNECTED EQUIPMENT, a readily accessible disconnect device shall be incorporated into the building installation wiring. The disconnect device shall disconnect both poles.

NOTE: For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible.

In Sweden, Norway and Finland the Rack PDM Charger must be connected to a wall outlet with protective earth (safety grounding). For other countries it is recommended to use a protective earth connection.

- Suomi: Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.
- Norge: Apparatet må tilkoples jordet stikkontakt.
- Sverige: Apparaten skall anslutas till jordat uttag.

1.3 REGULATORY COMPLIANCE STATEMENTS (EU AND EFTA ONLY)

The CE marking affixed to Mitel products indicates conformance to the R&TTE directive 99/05/EC (Radio and Telecommunications Terminal Equipment Directive. As of June 13th the 2017 R&TTE directive 1999/5/EC is replaced, in this document, by EMC 2014/30/EU). For a copy of the original signed Declaration (in full conformance with EN45014), please contact your Mitel office or Sales partner.



1.4 REGULATORY COMPLIANCE STATEMENTS (USA AND CANADA ONLY)

FCC Compliance Statements for USA

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 or more 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.

IC Requirements for Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B conforme à la norme NMB-003 du Canada.

Modifications

Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1.5 TECHNICAL SOLUTION

The following functionality is provided by the Rack PDM Charger:

Charger functionality

- Charging of the handset battery.
- Provide a means for software and parameter update of handsets.

When using an Ethernet connection, it is possible to connect several Rack PDM Chargers serially to the LAN.

If the Rack PDM Charger is connected to a PDM via both USB and Ethernet, the USB connection has higher priority.

NOTE: If the Ethernet connection is used, each Rack PDM Charger needs an IP address.

See label for MAC address.

The Rack PDM Charger is equipped with a combined reset button and embedded LED on the front.

1.6 INTERFACES

NOTE: The requirements stated below are only applicable for the Rack PDM Charger.

Computer:

- Microsoft Windows XP® Professional, Service Pack 2 (SP2) (32-bit), or Windows 7® Professional (32-bit/64-bit), Windows 7® Enterprise (32-bit/ 64-bit), Windows 7® Ultimate (32-bit/64-bit)
- Sun Java Runtime Environment (JRE) version 6 or higher.
- USB port. USB 1.1 required, USB 2.0 supported.
- Ethernet port 10/100 Mbit/s.

2. INSTALLATION AND CONFIGURATION

2.1 RACK PDM CHARGER INSTALLATION

2.1.1 GENERAL

NOTE: The unit shall be installed by authorized personnel only.

- The units shall be placed in a dry environment with a temperature range from +5° C up to + 40° C (41° F to 104° F).
- The units shall be mounted on a vertical wall.
- Avoid mounting the Rack PDM Charger in a sunlit place. This can affect the charging capacity.
- Avoid mounting the Rack PDM Charger where radio/network coverage is not sufficient. This can reduce the messaging capacity.
- The unit can be mounted to a vertical wall (concrete or plaster walls only) or be placed on table if table adapters are used.
- If the Rack PDM Charger is connected to a power supply via an AC wall plug, serial power supply connection is not allowed.
- If the Rack PDM Charger is connected to a power supply via an AC wall plug, the socket-outlet shall be situated near the equipment and shall be easily accessible.
- If the Rack PDM Charger is connected to a power supply via a fixed connection, a readily accessible disconnect device shall be incorporated in the building installation wiring.

Delivery Includes:

- Rack PDM Charger
- Power supply cord including IEC C14 connector (male)
- Inlet accessory kit including cable support holders and screws
- Table adapters

NOTE: An extension cord IEC C13 AC connector (female, IEC60320-C13) to wall socket has to be ordered separately. It shall be connected between the pre-installed IEC C14 AC connector (male) and the wall socket.

Required Tools etc.

- Screwdrivers
- Cutting pliers
- Multimeter
- Screws and wall plugs for wall mounting. Make sure the screws and wall plugs have the correct length for the type of wall used. See example below:

Wall material	Plug length	Screw diameter
Single plasterboard	Thorsman TP1	3.5 – 5 mm
Double plasterboard	Thorsman TP2	3.5 – 5 mm
Concrete	Thorsman TP2	3.5 – 5 mm

Examples of Ways to Mount the Rack PDM Chargers

Different ways to mount the Rack PDM Charger is shown in [figure 6](#) on page 11. It is possible to set up different combinations of Rack PDM Chargers and Battery Pack Chargers. A maximum of four Rack PDM Chargers (or Battery Pack Chargers) can be serially connected to the same LAN source.

Installation Steps for the Rack PDM Charger

The installation is done in three steps:

- 1 Placing on table or wall mounting.
- 2 Electrical installation.
- 3 Communication cable connection.

Installation Steps for the Rack PDM Charger

The installation is done in two steps:

- 1 Placing on table or wall mounting.
- 2 Electrical installation.

2.1.2 PLACING ON A TABLE

If the Rack PDM Charger shall be placed on table, use the table adapters included in the delivery as follows:

- 1 Mount the two table adapters in the two outer holes in the bottom cover of the Rack PDM Charger as shown in [figure 2](#) on page 8.
- 2 Mount the four rubber feet as shown in [figure 2](#) on page 8.

Figure 2. Mounting of table adapters and rubber feet.



Figure 3. Rack PDM Charger with table adapters.



2.1.3 WALL MOUNTING

First, make an outline of how the Rack PDM Chargers are to be placed.

TIP: If several Rack PDM Chargers (or Battery Pack Chargers) are to be mounted close to each other, mount them so that there is enough space between them to be able to disconnect the handsets (vertical distance) and to be able to open the top cover (horizontal distance).

TIP: When you are planning the location of the modules, start to mount them in a height that makes it easy to reach the handsets and to read the handsets' display.

Measure and mark the drill holes by using the dimensions in [figure 4](#). Drill and fasten the Rack PDM Charger on the wall with four screws.

Figure 4. Mounting dimensions in mm. Rack PDM Charger seen from the back.



2.1.4 ELECTRICAL INSTALLATION

Power Supply by Power Cord to Wall Outlet

The Rack PDM Charger is delivered with a cord with an IEC C14 connector (male). An extension cord IEC C13 AC connector (female, IEC60320-C13) to wall socket has to be ordered separately. It shall be connected between the pre-installed AC connector (male) and the wall socket.

Figure 5. Rack PDM Charger with IEC C14 connector and an extension cord with an

IEC C13 connector.



For the Rack PDM Charger, connect the communication cable when required.

Installation Test

- 1 Connect the mains power supply cord to the wall socket.
- 2 The LED on the front of the charger should light up.

NOTE: The LED is disabled on the Rack PDM Charger and will not light up. Put a handset into a charging slot and check if the handset LED lights up.

Power Supply by Fixed Connection

NOTE: If the Rack PDM Charger shall be connected with a fixed connection, the AC connection must be done by a authorized electrician.

TIP: It is possible to use any of the two AC terminal blocks for AC input. Consequently, the unused terminal block may be used to connect the next Rack PDM Charger or battery pack charger.

The Power Supply module connects to 100-240VAC/0.7A 50/60 Hz. When working with the units the mains power supply cable must always be disconnected. The safety covers must be mounted on top of the power supply terminal blocks to prevent hazardous situations, like electric chock.

Figure 6. Examples of how Rack PDM Chargers can be mounted and connected by fixed installation to a power source.



Opening the Top Cover

Open the top cover by first pressing on the sides of the top cover, then lifting it upwards.

Figure 7. Opening the top cover of the Rack PDM Charger.



Fixed Installation in Detail

Fixed installation of the first charger or single unit with fixed electrical installation.

- 1 Remove the C14 connector from the power cord. Measure, cut and strip the power cord to be connected to the disconnect device.
- 2 Connect the mains power supply cord to the disconnect device.

The IEC color code is used in the power cord supplied.

Table 1. Wiring color codes.

IEC	US	Old *	Load	Also called
Brown	Black	Red	Active	Line, Hot
Blue	White	Black	Neutral	Return, Cold, Grounded connector
Gr/Ye **	Green	Green	Earth	Ground, Safety Earth, Earth Ground, Grounding conductor ***

* The “Old” standard was used in various countries (including Australia), and some wiring may still use these colors.

** Gr/Ye - Green with Yellow stripe - this is the standard world wide, although it is not common in the US or Canada at present.

*** There is an important distinction between “Grounding conductor” (safety earth) and “Grounded conductor” (Neutral). These are US terms for the conductors and they are not interchangeable, despite the similarity of the names !

Installation of Additional Units in a Serial Power Configuration

NOTE: Do not connect more than five units in a power series. Serial power configuration is only allowed for wall mounted Rack PDM Chargers, it is not allowed for Rack PDM Chargers used as a single desktop unit placed on a table.

NOTE: Do not connect more than four units to one single LAN outlet in a LAN series.

IMPORTANT: It is not allowed to connect additional Rack PDM Chargers or Battery Pack Chargers if the chargers are connected to the power supply via an AC plug.

IMPORTANT: Disconnect the power supply connection before working on the units.

- 1 If the additional Rack PDM Charger has not yet been mounted on the wall, do this according to [figure 4](#) on page 9.
- 2 Open the top cover of the Rack PDM Charger closer to the AC power source.
- 3 Remove the cover which protects the unused AC output terminal block of the charger closer to the AC power source.
- 4 Mount the cable support holder at the unused opening in the charger closer to the AC power source. The cable support holder is provided in the parts bag. See [figure 8](#).

Figure 8. The rectangular cover that shall be removed and changed to a cable support holder with a mains power supply cord run through it.



- 5 Remove the C14 connector from the additional charger. Cut and strip the mains power supply cord coming from the additional charger to the length required.
- 6 Run the power supply cord from the additional charger through the cable support holder of the previous charger, see [figure 9](#) on page 13.

Figure 9. Securing the mains power supply cable.



- 7 Connect the power supply cord from the additional charger to the unused terminal block in the charger closer to the AC power source. Note the embossed markings L, earth symbol and N, see [figure 10](#).

Figure 10. The mains power supply connection.



- 8 Mount the safety cover and fasten it with one screw.
- 9 Secure the mains power supply cable with two screws (2), which are provided in the parts bag, see [figure 9](#).
- 10 Replace the top cover, see [figure 7](#) on page 11.
- 11 Fasten the power cord to the wall depending on local regulations.
- 12 If more Rack PDM Chargers shall be connected, repeat the above steps 1-12 for the next unit.

Installation Test

- 1 When the fixed installation is completed, apply AC power by switching on the disconnect device.
- 2 The LED on the front of each charger should light up.

NOTE: The LED is disabled on the Rack PDM Charger and will not light up. Put a handset into a charging slot and check if the handset LED lights up.

2.1.5 COMMUNICATION CABLE CONNECTION

NOTE: This section is applicable for the Rack PDM Charger only.

The communication cable connections are situated under the top cover of the Rack PDM Charger.



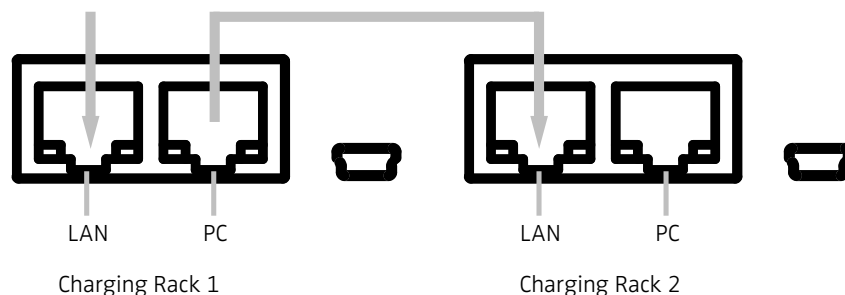
Figure 11. Communication connections inside the Rack PDM Charger.

From left: Ethernet (LAN), Ethernet (PC) and USB.



When connecting several (up to four) Rack PDM Chargers over Ethernet, it is possible to connect them in series using the two Ethernet connections. Power over Ethernet is not supported.

Figure 12. Connecting Rack PDM Chargers in series using Ethernet cables



- 1 Open the top cover, see [figure 7](#) on page 11.
- 2 If a single Rack PDM Charger is used, connect the Ethernet cable or USB cable to the connections shown in [figure 11](#) on page 14. If several Rack PDM Chargers shall be connected in series, connect the Ethernet cables to the connections shown in [figure 12](#) on page 15.
- 3 Let the Ethernet/USB cables run on top of the cable support holders, see [figure 9](#) on page 13.
- 4 Close the top cover.

The USB Interface supports USB 2.0 Full speed. One Mini-B Receptacle USB connector is used. The USB connection is used for communication with a PC. Power over USB is not supported.

The USB connection is used for connecting the Rack PDM Charger directly to a PC or to a LAN for the purpose of upgrading or configuring the Rack PDM Charger itself or handsets placed in the charger.

2.1.6 SOFTWARE INSTALLATION

NOTE: This section is applicable for the Rack PDM Charger only.

The charger is delivered with pre-installed software and it is possible to upgrade the charger software. Refer to the Installation and Operation Manual for the Device Manager or the PDM for instructions on how to upgrade the charger.

2.2 RACK PDM CHARGER CONFIGURATION

NOTE: This section is applicable for the Rack PDM Charger only.

Each Rack PDM Charger need access to DHCP to receive an IP address automatically. If no DHCP is accessible it is possible to configure with WinPDM Windows Version.

If the Rack PDM Charger is configured to run DHCP, connect the network cable and the Rack PDM Charger will automatically receive an IP address. If the Rack PDM Charger is not configured to run DHCP the Rack PDM Charger will use the setup IP addresses.

The following parameters exist for the Rack PDM Charger and can be changed via the WinPDM/CPDM3/WSM3.

Parameter	Description
Ethernet Bit rate ^a	auto (default)
Ethernet connector ¹	auto (default)
Ethernet duplex ¹	auto (default)
DHCP Enabled	Yes (default), No
Charger IP address	192.168.0.101 (default)
Subnet mask	255.255.255.0 (default)
Default gateway IP address	192.168.0.1 (default)
DNS IP address	192.168.0.2 (default)
Charger IP port	12346 (default)
Service Discovery Enabled	Yes (default), No
Service Discovery Domain	Name of domain
DH IP address (one DH only)	192.168.0.3 (default)
DH IP port	10147 (default)

a. Currently only “auto” setting is available.

Follow these instructions to set the Charger Rack parameters:

NOTE: It may be necessary to import the parameter definitions file that is included in the software package. The package is provided by your supplier. The PDM/Device Manager used may differ from the version that is described here.

- 1 Check that the Charger Rack is connected to the PDM/Device Manager.
- 2 In PDM or the Device Manager, click on the Numbers tab.
- 3 Select the Charger Rack device that you want to change parameters for.
- 4 In the Number menu, click “Edit...”. The Edit parameters window opens.
- 5 Edit the parameters you want to edit.
- 6 Click “OK”.

3. COMMISSIONING

The commissioning includes the following:

- Installation test
- Charging
- Communication with WinPDM or CPDM3/WSM3

Installation Test

For Installation test, see chapter [Installation Test](#) on page 10 or page 14.

Charging

To verify that the charging works, do as follows:

- 1 Check that the LED on the front of the charger(s) is lit.
- 2 Place a handset in a charging slot. Start of charging may be indicated differently depending on handset model.

Communication with WinPDM and CPDM3/WSM3

NOTE: The communication test is applicable for the Advanced Charger Rack only.

See [figure 11](#) on page 14 to see the communication connections to the charger.

Follow these instructions to start the WinPDM/CPDM3/WSM3:

If you are using a CPDM3/WSM3:

- 1 Check that the Rack PDM Charger is connected.
- 2 Open a web browser and enter the URL to access CPDM3/WSM3.
- 3 Click on "Device Manager". The Device Manager window appears.
- 4 Go to the "Devices" tab and verify that the Charger Rack is online (it may take up to 15 sec).

If you are using the WinPDM (Windows Version):

- 1 Check that the Rack PDM Charger is connected to your PC.
- 2 Start WinPDM (Windows Version).
- 3 Go to the "Devices" tab and verify that the Charger Rack is online.

For instructions on how to verify that the charger parameter setting works, and for further instructions, see *Installation and Operation Manual for WinPDM*, Windows version, or the *CPDM3/WSM3 Installation Manual* for instructions on how to upgrade the charger.

4. OPERATION

4.1 CHARGER OPERATION

When the charger is connected to an external power supply, normal operation is done as follows:

Handset charging

- 1 Connect the charger to the AC power supply.
- 2 Place a handset in the charging slot to start charging.

Handset disconnection

- 1 Tilt the handset forwards.
- 2 Lift the handset upwards.

NOTE: Do not try to lift the handset upwards before tilting it forwards.

5. MAINTENANCE

5.1 OPERATION WHEN THE CHARGER RACK IS CONNECTED TO A PDM OR DEVICE MANAGER

When the charger is connected the following additional operations can be done:

- Software upgrade (of charger or handset)
- Parameter editing (of charger or handset)
- Phonebook upload (handset)
- Language upload (handset)

See Installation and Operation Manual for WinPDM or CPDM3/WSM3 for more information.

5.2 SOFTWARE UPDATE

The charger software is pre-installed. Updates can be performed by using the WinPDM or CPDM3/WSM3.

The software version of the charger can be checked as follows:

- 1 Open WinPDM or the Device Manager CPDM3/WSM3.
- 2 Go to the Devices tab.
- 3 In the list of devices, find the charger.
- 4 The software version is shown in the Software version column.

See *Installation and Operation Manual* for WinPDM or CPDM3/WSM3 for more information.

5.3 EASY REPLACEMENT

NOTE: This section is not applicable for the Basic Charger Rack.

The Charger Rack supports the Easy Replacement feature. Easy replacement is performed via the handset display and does not involve WinPDM or CPDM3/WSM3. The Rack PDM Charger only needs a power connection to support easy replacement. A connection to WinPDM/CPDM3/WSM3 is not needed. See the User Manual for the handset more for details.

5.4 LED INDICATIONS

The charger is equipped with a status LED. The following indications are used:

LED indication	Description
None	Not connected to power.

Green, fixed	Logged on to WinPDM/CPDM3/WSM3.
Orange, fixed	1) Not logged on to WinPDM/CPDM3/WSM3 2) Charging of handset
Orange, flashing (1000 ms on, 1000 ms off)	1) Software download. 2) File transfer during Easy Replacement.
Orange, flashing (100 ms on, 800 ms off)	"Change phone" indication during Easy Replacement.
Red, fixed	Software error. Service needed.
Red, flashing (100 ms on, 800 ms off)	Error indication during Easy Replacement. Put back old handset in charger. Charger returns to "Not logged in to PDM/Device Manager" mode when handset is removed.
Red, flashing (3 long flashes, 800 ms on, 100 ms off)	Parameter error in user parameters. Charger performs a factory reset and restarts.
Red, flashing (800 ms on, 100 ms off)	1) Parameter error in production parameters. Service needed for charger. 2) Error during Easy Replacement. Service needed for both handsets.

LED indications are also described in chapter [6. Troubleshooting](#) on page 22.

The reset button is used to reset the Charger Rack.

6. TROUBLESHOOTING

NOTE: The LED is disabled on the Basic Charger Rack.

For general LED indications, see [5.4 LED Indications](#) on page 20.

Status LED on the charger is not lit.

Check that power is supplied.

If power is supplied and the status LED is still not lit:

The probable cause is a software error. Send charger for service.

Status LED on the charger is fixed red.

Software error. Send charger for service.

Status LED is flashing red for 3s, then green

Software error. A factory reset has been performed. It may be necessary to set parameters from WinPDM/CPDM3/WSM3.

Status LED is flashing red (100 ms on, 800 ms off) for more than 3s

An error occurred during Easy Replacement. Remove handset from charger.

NOTE: Easy Replacement is not applicable for some handset models. Refer to the Data Sheet for the Rack PDM Charger for more information.

Status LED is flashing red (800 ms on, 100 ms off) for more than 3s

If the error occurred during Easy Replacement, remove the handset from the charger. The charger should return to normal operation.

Software error in charger. Send charger for service.

Charging does not start

Check that the handset is properly inserted in the charger.

The Rack PDM Charger does not appear in WinPDM/CPDM3/WSM3.

Check that the communication cable (USB or Ethernet) is connected.

To reset the Rack PDM Charger, press the embedded LED on the front of the charger, for example with a pen or a screw driver.

7. RELATED DOCUMENTS

Installation and Operation Manual, WinPDM	12/1531-ANF90143
Installation and Operation Manual, CPDM3	25/1531-ANF90143
User Manual DT4x3 Cordless Phones	1424-EN/LZT 103 089
User Manual DT390 Cordless Phones	1424-EN/LZT 103 087
User Manual DT69x Cordless Phones	1424-EN/LZT 103 088
User Guide Mitel 5613	
User Guide Mitel 5614	
Wireless Messaging Gateway (WSM)	
Installation and Operation Manual	
Mitel 5603 Wireless Handset User Guide	
Mitel 5604 Wireless Handset User Guide	
Mitel 5607 Wireless Handset User Guide	
Mitel 5624 Wireless Handset User Guide	