

M3 4-Slot Ethernet Cradle

User Guide



Cradle Model:
A-4CR-00ED-110-R00

Compatible Device:
M3 RED, GREEN and SKY

Version 2.1
Released in March 2013

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Notice – General Notices

The contents of this user manual were made based on the “current state” of the product, and this manual may contain technical and editing errors or omissions.

When separate application programs are developed and provided by the product providers using the product, refer to the program user’s manual provided by the product providers.

The companies that produce separate application programs besides the basic installation programs must include the contact telephone number for inquiring about these programs on the product, program, or product box separately when distributing the equipment.

M3 Mobile does not guarantee the quality of the programs produced by third party software companies installed after the release from the factory of M3 mobile.

M3 Mobile may request programs from the program manufacturers in order to guarantee the quality of the product to meet the requests of mobile network service providers.

Notice – Revision History

Version 2.1 – March, 2013

- Change address and M3 Mobile technical support webpage

Version 2.0 – Feb, 2011

- First release of separate user manual for standard cradle.

Version 1.0 – May, 2010

- First release of printed version.

Warnings and Cautions for Safety

Before You Begin

Please read the warnings and cautions for safety carefully before you begin to avoid any damages or accidents. If you are not certain on any information given in this manual, please contact your supplier.

Customer Cautions

If the device is lost or stolen, then immediately report the incident to the service provider.

Refrain from using the device while driving.

When service for the product is required, request services through the designated service center of M3 Mobile.

For inquires about the application programs and other work programs besides the hardware and the basic installation, directly contact the corresponding program manufacturers.

Do not use any battery adapter or accessories other than the designated ones provided with the product.

Free warranty service may not be allowed if failures occur due to unauthorized use or misuse of the product.



Warnings and Cautions for Safety – Cntd.

Cautions in Carrying and Storing

Do not use the product in high temperature or high humidity environments as this may quickly cause damage to the product.

The product was designed to be suitable for work environments, but avoid impacts or dropping the product. This may cause fatal damage to the product.

Fully charge the battery before using the product for the first time.

Do not modify the product

Do not try to modify the product by any means.

Modifications may cause fire, injury, electric shock, or serious damage to the equipment and users.

The warranty service is not provided for troubles due to unauthorized modification.

1. Checklist

Thank you for selecting M3 4-Slot Ethernet Cradle. This guide will help you on basic usage of the product. Please check if all the contents shown below are nearby for use. Power supply is needed for charging and data communication.



If you don't have everything, contact your supplier immediately.
Ethernet cables are not provided from M3 Mobile.



Caution

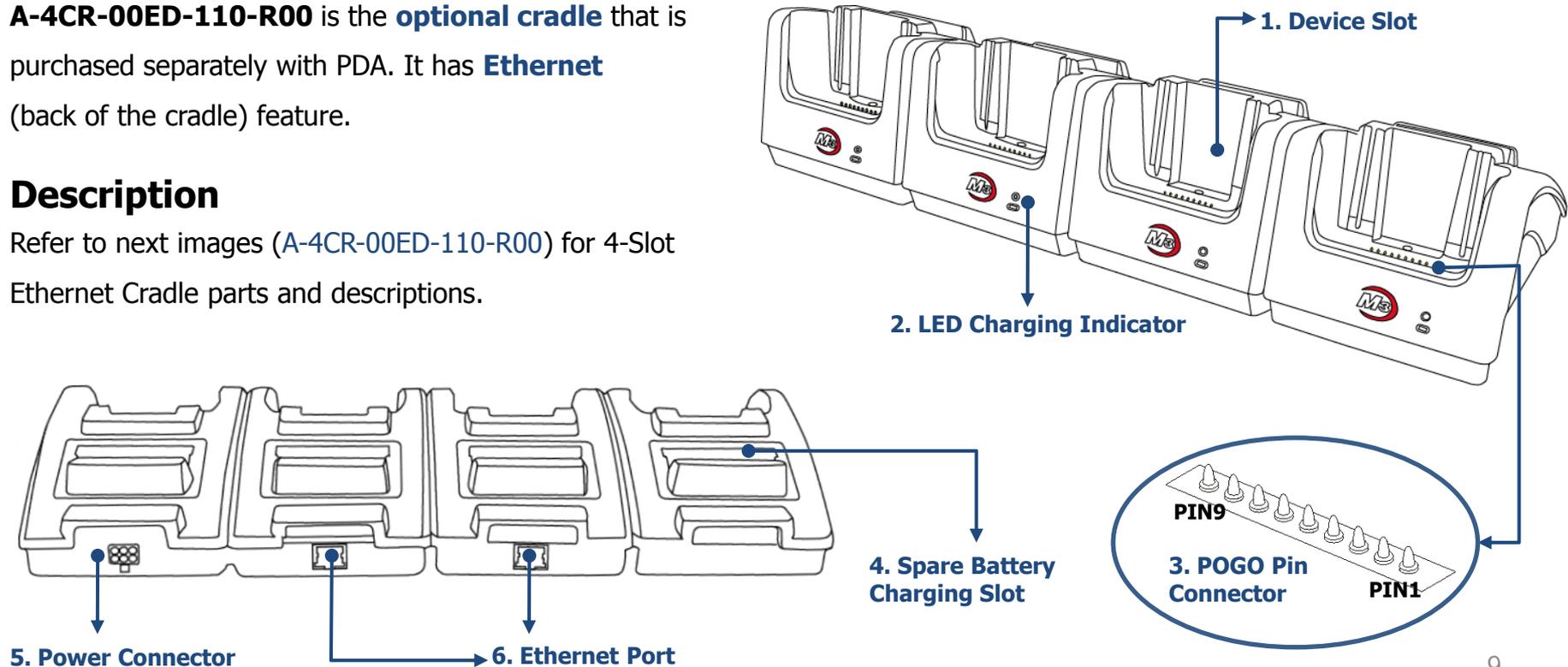
Please use the correct power supply provided by M3 Mobile. Compatibility with other power supply source is not guaranteed.

2. Usage – Description

A-4CR-00ED-110-R00 is the **optional cradle** that is purchased separately with PDA. It has **Ethernet** (back of the cradle) feature.

Description

Refer to next images (**A-4CR-00ED-110-R00**) for 4-Slot Ethernet Cradle parts and descriptions.



2. Usage – Description continued.

- 1. Device Slot** – A PDA slides into the slot for charging and data transfer connection. 4 PDAs can be charged at the same time.
- 2. LED Charging Indicator** – Charging status of spare battery is displayed. Refer to No. 4. Note that the LED on the PDA will show the charging status of PDA.

LED Color	Meaning
RED	The spare battery is being charged.
GREEN	The spare battery is fully charged.

3. POGO Pin Connector

1	2	3	4	5	6	7	8	9
USB D-	USB D+	USB VBUS	COM6_DET (N/A)	RXD (N/A)	TXD (N/A)	USB ID	GND	5V

- 4. Spare Battery Charging Slot** – Spare battery can be charged in this slot. 4 spare batteries can be charged at the same time.
- 5. Power Connector** – AC power supply connector. Make sure the authentic power supply is used.
- 6. Ethernet Port** – Data communication through Ethernet on all 4 PDAs is possible by connecting a Ethernet cable to either one of the port at the back of the cradle. The other unoccupied Ethernet port can be used to extend the Ethernet connection to another 4-Slot Ethernet Cradle. i.e. Connecting several 4-Slot Ethernet Cradle in series is possible. However, connecting more than 3 items is not recommended.



Caution

Either Ethernet port can be used as input port. However, **do not insert two LAN cables to the Ethernet ports at the same time**, except crossover cable. It may cause the abnormal behavior.

2. Usage – Specification

Model	A-4CR-00ED-110-R00	
Compatible PDA(s)	M3 RED, GREEN and SKY	
Charging LED (Extra battery only)	<ul style="list-style-type: none">▪ Red - Charging▪ Green - Fully charged	
Spare Battery Slot	Charging Slot (2200mAh Battery, 4.2V/1.1A)	
Adapter Input	AC 100 ~ 240V, 50 ~ 60Hz	
Adapter Output	DC 5.2V / 12A	
Power Connector	6 PIN Connector	
USB	Host	Not supported
	Client	Not supported
Serial Port	Not supported	
Ethernet Port	RJ-45 Ethernet Port	
Cradle / PDA Connector	9 PIN POGO Connector. Refer to '2. Usage – Description No.3 POGO Pin Connector' for pin I/O information.	

2. Usage – Specification

Ethernet Specification

- RJ-45 Ethernet Port
- IEEE 802.3/802.3x 10Base-T / 100Base-Tx compliant
- IEEE 802.3x flow control
- Auto-Negotiation for 10Base-T and 100Base-Tx

Ethernet Port LED Description

LED Color	Meaning
Flashing GREEN	Accessing to the switch/hub.
Solid GREEN	Connection is established.
Flashing AMBER	Data transmission



Caution

Inserting and ejecting PDA in the Ethernet cradle reasonably quickly may cause the Ethernet LED unlighted. This happens due to the time taken to load and unload LAN driver in PDA. If this happens, please reset the PDA.

3. FAQ and Troubleshoot – Charging

This chapter provides frequently asked questions and its corresponding answers.

Charging

Q1. How to charge PDA using the cradle?

Step 1. Plug in the AC adapter plug to wall jack and 6 PIN connector to power connector of cradle.

Step 2. Insert the PDA to device slot to start charging the PDA.

Q2. Charging Status

Charging status of the PDA and the spare battery is indicated by LEDs.

LED charging indicator on the cradle (No. 2 in description) indicates the charging status of the spare battery.

LED on upper left corner (for RED and GREEN) or upper right corner (for SKY) indicates the charging status of the battery attached to the PDA.



Caution

1. Use the correct AC adapter with 5.2V, 12A output provided by M3 Mobile.
2. Incongruent change of battery can cause the explosion.
3. When attached battery is completely discharged, plug charger to main body, then reset the device to check if the screen is back on. Leave at least for 10 min in charging state before use.

3. FAQ and Troubleshoot – Ethernet

Ethernet

Q1. Cannot use Ethernet

A1-1. Check if the LAN cable is properly connected to the cradle and LAN output port AND AC power supply is connected.

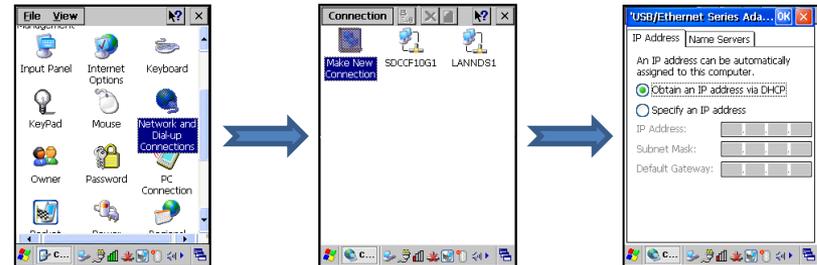
A1-2. Check if the Ethernet uses Static IP or DHCP. Then, check if the PDA's network adapter is configured accordingly. Refer to next images for static IP configurations.

A1-3. If all above methods does not solve your issue, contact your supplier.

Static IP Configuration Windows Mobile



Windows CE



3. FAQ and Troubleshoot – Ethernet

Ethernet Continued.

Q2. Can Wi-Fi be used after the PDA is taken from the cradle?

A2-1. Yes, Wi-Fi can be used if WLAN is turned on and correctly configured. Using Ethernet cradle will not effect on Wi-Fi connection.

Q3. Ethernet LED is not turning on.

A3-1. Inserting and ejecting PDA in the Ethernet cradle reasonably quickly might cause the Ethernet LED unlighted. This happens due to the time taken to loading and unloading LAN driver in PDA. If this happens, please reset the PDA.
Using Static IP will decrease the chance of getting into this situation.

Services and Support

Should you require any services or technical support on M3 Mobile's products, contact your supplier or visit M3 Mobile technical support webpage <http://itc.m3mobile.net>. Desired or relevant manuals can be downloaded from **Knowledge Center** or **FAQ** in technical support webpage.

For DOA or RMA, please send the defective product to suitable address **AFTER** consulting the supplier.

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Thank you for choosing M3 Mobile's product!