

M5900 Terminal Charger



User's Guide

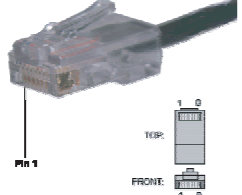
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 Website: www.amltd.com

Description of the RJ-45 10 Pin Connector (RS-232)

- 1 – 5 VDC (out to handheld tethered scanner)
- 2 – RxD (in to terminal)
- 3 – TxD (out from terminal)
- 4 – RTS (out from terminal)
- 5 – GND
- 6 – Battery Charge (in to terminal)
- 7 – CTS (in to terminal)
- 8 – UDC+ (USB data +)
- 9 – UDC – (USB data -)
- 10 – Battery Out (from terminal)

Note: the Battery Out is only active when the unit is set to IrDA w/RS232 Scanner or IrDA w/RS232 Comms

Note:
 A standard 8-pin Ethernet connector can be used to connect the M5900 to an RS-232 serial port printer. In this case the 2 outside pins (1 and 10) are not connected. Use the chart and example on the right to determine the pin-out.

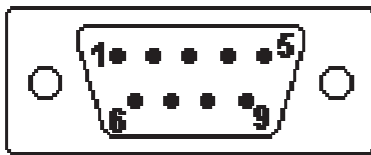


1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0

- 1. RxD (in to terminal)
- 2. TxD (out from terminal)
- 3. RTS (out from terminal)
- 4. GND
- 5. No connection
- 6. CTS (in to terminal)

The ACC-5910 adapter has no internal or external settings that can be changed.

Description of the DB-9 Connector (RS-232)



DB-9 Pin out (RS-232)

- 1 – DCD (Data Carrier Detect)
- 6 – DSR (Data Set Ready)
- 2 – RXD (Receive Data)
- 7 – RTS (Request To Send)
- 3 – TXD (Transmit Data)
- 8 – CTS (Clear To Send)
- 4 – DTR (Data Terminal Ready)
- 9 – NC (No Connection)
- 5 – GND (Signal Ground)

Regulatory Information

All American Microsystems, Ltd. devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required. Any changes or modifications to American Microsystems, Ltd. equipment, not expressly approved by American Microsystems, Ltd., could void the user's authority to operate the equipment.

Power Supply

Use only an American Microsystems, Ltd. approved Power Supply, output rated 5 VDC and minimum 2.4A. The Power Supply is certified to EN60950.

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FCC Declaration of Conformity
 Product Name: M5900 Terminal Charger / Serial Adapter
 Model Number: ACC-5910

Radio Frequency Interference Requirements

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This equipment may not cause harmful interference, and (2) this equipment must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. 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 you determine the equipment does cause harmful interference to radio or television reception (this may be determined by monitoring the interference while turning the equipment off and on), you are 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 or TV technician for help.

Radio Frequency Interference Requirements - Canada

This Class A digital apparatus complies with Canadian ICES-003.
 Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Marking and European Economic Area (EEA)

CE Products intended for sale within the European Union are marked with the CE mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or EN's are included.

- Electromagnetic Compatibility Directive 89/336/EEC
- Low Voltage Directive 73/23/EEC

Introduction

The ACC-5910 Terminal Charger charges the M5900 portable data terminal and has a built-in null-modem adapter that allows RS232 serial communication.

About This Guide

This guide provides instruction on setting up and using the ACC-5910 M5900 Terminal Charger. For instructions on battery charging, see the M5900 User's Guide.

Set Up

Setting up the ACC-5910 includes unpacking, connecting the power cable, connecting a serial cable, and placing on a tabletop.

Unpacking the Terminal Charger

The shipping box includes the following:

- One ACC-5910 M5900 Terminal Charger
- One RJ Connector Cable
- One PWR-7100 Power Supply (120VAC) or PWR-7150 (220VAC)
- One Line Cord with PWR-7150
- One DB-9 M-F Data Cable
- This User's Guide

If any parts are missing or damaged, contact your authorized Customer Support Representative immediately. Save the shipping box for storing or shipping.

Connecting the Power

The PWR-7100 power supply is included with the ACC-5910 M5900 Terminal Charger for 120VAC. The PWR-7150 power supply is included with the ACC-5910 M5900 Terminal Charger for 220VAC along with a country specific line cord.

Use only an American Microsystems, Ltd. approved power supply; output rated 5 VDC and a minimum of 2.4 Amps. The power supply connects to the ACC-5910 by a 2.1mm x 5.5mm barrel connector, center positive.

To connect power to the charger:

1. Plug-in the Power Supply to a standard AC electrical outlet.
2. Connect the Power Supply Plug to the barrel power jack on the adapter.
3. The adapter's LED will turn green to indicate that power is available.
4. The LED will remain green until a terminal is connected.

Charging

Turn the M5900 terminal off and insert the ACC-5910 Modular plug into the bottom of the M5900. It begins to charge as soon as it is inserted. To properly charge the battery, be sure the terminal is off.

Indicator Lights

LED Color	Description
Off	No power supplied to terminal charger.
Green	If no terminal is connected to the charger, green indicates that there is power available. If a terminal is present, green indicates that the terminal is fully charged.
Red	Terminal or battery is connected to the charger and the battery is being charged.

Troubleshooting

Symptom	Cause	Suggested Action
LED does not light when the charger is powered on.	Terminal charger is not receiving power.	Make sure the power supply is securely connected and receiving power.
LED stays green when the terminal is connected.	Connector and terminal are not connected firmly, or the battery is not properly installed in the terminal. Battery is charged.	Make sure the battery is properly installed in the terminal, and reseal the connector onto the terminal. Normal status.
LED stays red for more than 6 hours.	Battery faulty and can not be charged.	Replace battery with an AML approved battery.

The M5900 Terminal Charger

When the battery charging LED is red, the battery is charging. When the battery charging LED is green the battery is fully charged



A fully discharged battery takes about 4 hours to completely recharge.

The M5900 Communications Ports

