





EMGTM 8500 Quick Start Guide

Edge Management
Gateway



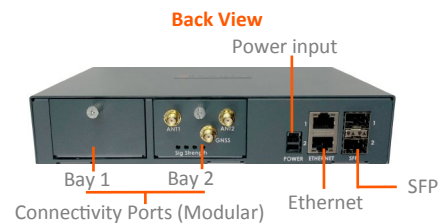
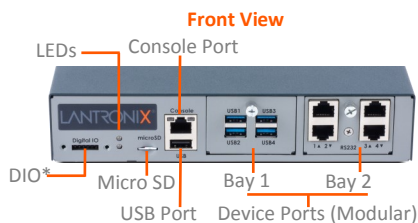
Thank you for choosing Lantronix. Please register the EMG 8500 in order to receive notifications for firmware and documentation updates at www.lantronix.com/product-registration.

WHAT'S IN THE BOX

Quick Start Guide	EMG 8500	Accessories	Part Number	Quantity
		External Universal AC (100W, 12V) Power Supply	520-0164-00	1
		North American Power Cord - 110V AC power cord, 8 ft (2.43m), RoHS	500-041-R	1
		RJ45 to DB9F Adapter	200.2070A	1
		RJ45 to RJ45, CAT5 Cable, 6.6 ft (2 m)	200.0062	1
		RJ45 Loopback Cable	500-153	1
		Additional I/O and Connectivity FRUs are available and sold separately.	varies	varies

EMG851210SP with USB and RJ45 FRUs shown.
Additional FRU combinations are available.

1. HARDWARE OVERVIEW



The EMG 8500 unit offers up to 8 RJ45 (RS-232) or USB serial device port connections in two user-swappable, front I/O module device bays. The attached equipment requires an available console, AUX, or serial port (RS-232). Dual Ethernet or dual SFP ports provide in-band management access, allowing remote management of equipment using familiar tools such as Telnet or Secure Shell (SSH). Two user-swappable connectivity module bays on the back of the EMG unit provide out-of-band management access via LTE cellular modem FRU, or a local terminal can be used. In the event that the IP network is unavailable, the EMG 8500 unit can fail-over to the secondary connectivity interface. Once connected, the user has access to the server or IT equipment's command line interface (CLI) via the console port to perform maintenance or management tasks.

*DIO adapter is available and sold separately.

All EMG 8500 models are compatible with a variety of equipment, including:

- Switches • Routers • Firewalls • Servers • UPS systems • PBX systems • Telecom switches • PDU (supported brands)

2. CONNECTING THE EMG 8500

The front console port allows a dumb terminal or PC with terminal emulation software to locally access management functions and connected devices.

The device ports allow simple and flexible connections to serial devices using adapters and a standard CAT5 cable. Connect one end of the CAT5 cable to the device port and the other end to an adapter that attaches to the serial console of the target system.

For example, to connect a PC to the console port of the EMG 8500, you need the RJ45 to DB9F Adapter and a standard CAT5 cable which is supplied with the unit.

The default communication parameters for the device ports and console ports are:

- 9600 baud • 1 stop bit • 8 data bits • No flow control • No parity

Default Pin Assignments

Console Port (RS-232)

1	RTS	(Out)
2	DTR	(Out)
3	TX	(Out)
4	GND	
5	GND	
6	RX	(In)
7	DSR	(In)
8	CTS	(In)

Not Reversible

Device Ports (RS-232)

Reversed by Default

1	CTS	(In)
2	DSR	(In)
3	RX	(In)
4	GND	
5	GND	
6	TX	(Out)
7	DTR	(Out)
8	RTS	(Out)

Software Reversible

3. HARDWARE INSTALLATION

1. Install the unit on a desktop or other flat, horizontal surface. You may optionally mount the EMG 8500 in a 19-inch rack or on a wall using the optional mount kit accessories. **Warning:** If rack mounting the EMG, do not block the air vents on the sides of the unit. If mounted in an enclosed rack, it is recommended that the rack have a ventilation fan.

2. Connect the equipment to the numbered device ports on the front of the unit using the appropriate cables and adapters.

3. Connect the unit to the network using the upper network port (Ethernet 1).

4. Connect the power cord to apply power. The top front LED turns green to indicate that power is ON and at least one of the Ethernet ports has a link or both Ethernet ports are disabled. The LED blinks red if none of the enabled Ethernet ports has a link.

5. Wait about a minute and a half for the boot process to complete. The first time you power up the EMG unit, Eth1 tries to obtain its IP Address via DHCP. View this IP Address by running Lantronix Provisioning Manager application or by connecting a terminal to the console port to access the command line interface.

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4. IP ADDRESSING

Both of the EMG 8500 network ports (Ethernet 1 and Ethernet 2) default to DHCP-assigned IP addresses. If you want to assign a different IP address, it must be within a valid range, unique to your network, and use the same subnet mask as your workstation.

To configure the EMG 8500, you need the following information:

IP address (if not already assigned): _____ . _____ . _____ . _____

Subnet mask (if not already assigned): _____ . _____ . _____ . _____

Gateway: _____ . _____ . _____ . _____

DNS: _____ . _____ . _____ . _____

5. RUN QUICK SETUP TO CONFIGURE NETWORK (IP) SETTINGS

To set up the network connections, you may do one of the following:

- ◆ Complete the Quick Setup on the Web Manager.
- ◆ SSH to the command line interface and follow the Quick Setup script
- ◆ Connect a terminal to the console (RS-232) port and follow the Quick Setup script on the command line interface

The Quick Setup script lets you configure the Eth1 network settings, change the date and time, and change the sysadmin password. After you save the values for your EMG, the changes take effect immediately.

Note: To access the web page or to access the command line interface using SSH or Telnet, the EMG unit must have a network connection and IP address.

Note: You can view the IP address by running the Lantronix Provisioning Manager (LPM) application. Download LPM from [here](#) and follow instructions in the user guide to discover devices.

6. LOGGING IN TO THE WEB PAGE

You can use either the Web Manager or the command line interface to configure all parameters.

To log in to the EMG 8500 web page:

1. Open a web browser (Firefox, Chrome, Safari, or Internet Explorer with the latest browser updates).
2. In the URL field, type **https://** followed by the IP address of your EMG.
3. At the first login, enter **sysadmin** (all lower case) as the user and **PASS** (all upper case) as the factory default password.

Note: Change the default password as soon as possible to prevent access by unauthorized personnel.

The first time you log in, the EMG 8500 Quick Setup page is displayed. Subsequent logins will display the EMG 8500 Home Page.

4. Do one of the following:

- To bypass the Quick Setup page and go directly to configuring the EMG, click the **Accept default Quick Setup settings** checkbox and click **Apply**.
- Update the basic network parameters, if desired, and click **Apply**.

After you save the values for the EMG unit, the changes take effect immediately.

7. LOGGING IN TO THE COMMAND INTERFACE

To access the command line interface:

1. Do one of the following:
 - With a network connection, use a Telnet or SSH program to Telnet or SSH to **xx.xx.xx.xx** (the IP address in dot quad notation), and press **Enter**. You should be at the login prompt.
- Note:** By default, Telnet is disabled. To enable it, use the Services web page, a serial terminal connection, or an SSH connection with a serial terminal connection. When the command line displays, press **Enter**.
2. Enter **sysadmin** as the user name and press **Enter**.
3. Enter **PASS** as the password and press **Enter**. The first time you log in, the Quick Setup script opens automatically. Subsequent logins display the command prompt only.

Note: Change the default password as soon as possible to prevent access by unauthorized personnel.

4. If the Quick Setup script displays, update basic network parameters, as desired. Otherwise, just press **Enter** until the command prompt displays. By pressing **Enter**, you are accepting the current settings.

Notes: For general command line interface help, type **"help command line"**.

For help with a specific command, type **"help"** followed by the command; for example, **"help set network"** or **"help admin firmware"**.

Contact Technical Support

For technical support queries, visit <http://www.lantronix.com/support> or call (800) 422-7044 Monday – Friday from 6:00 a.m. – 5:00 p.m., Pacific Time, excluding holidays.

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