

e3 eMERGE Quick Start Guide

For Level 1 (controlled) Installations

Congratulations on purchasing an e3 eMerge Access Control System. This e3 eMerge Quick Start Guide provides simple instructions on how to get the system up and running. For more detailed information, please refer to the e3 Controller Installation Manual (620-100531).

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Mounting the eMerge e3 Controller

1. Run all necessary wires to the e3 Controller's location.
2. Unlock and open the metal enclosure's door and disconnect the green ground wire. Remove the door by lifting it up, sliding the hinges out of the slots in the metal cabinet.
3. Remove any metal cabinet knockouts required for wire entry (see Figure 1).
4. Level the enclosure on a sturdy wall. Mark the mounting holes with a pencil. (The cabinet can be vertically or horizontally mounted depending on space requirements.)
5. Partially insert screws into the top two mounting holes and hang the enclosure on the screws.
6. Pull all wires through the knockout holes in the enclosure. Label each wire according to its use.
7. Recheck for level, insert the two lower screws, and tighten all four mounting screws.
8. Install bushings as needed in cabinet knockouts to protect wires from damage.
9. Re-install the door and connect the green ground wire to the door.

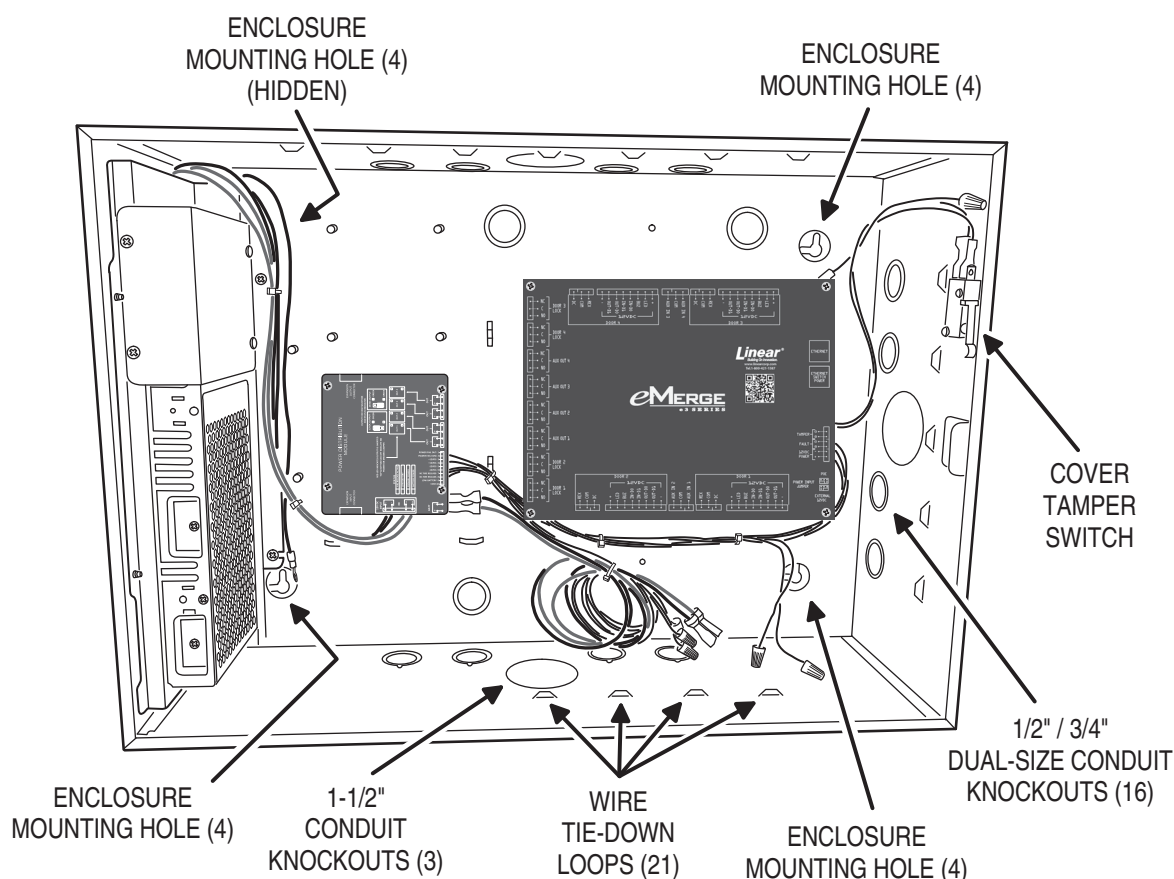


Figure 1. Power Distribution Module Connections & Features

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e3 eMerge Power Connection

Systems using metal enclosures include a factory installed 12 VDC 12.5 Amp power supply and a four-output Power Distribution Module (PDM). An additional secondary Power Distribution Module (Model PS124D-UP4) can be installed in the cabinet for a total of eight auxiliary power outputs (see Figure 2).

Power Distribution Module

The e3 Power Distribution Module routes 12 VDC power from the system power supply to the e3 Controller, input devices (readers & keypads), and output loads (mag locks & door strikes). The Power Distribution Module supports charging a 12V gel cell backup battery. The backup battery is supervised for its charge condition.

Battery Connection

The metal enclosure provides charging and space for one 12 VDC/7Ah sealed lead-acid battery (not included). The battery provides standby power when the primary power source is lost. The e3 Controller will utilize the backup battery until the battery voltage reaches 11 VDC at which point the entire system shuts down.

Warnings:

- ◆ Use caution when installing the battery. Incorrect use can damage the battery, the e3 Controller, or can cause a fire.
- ◆ Connect only one battery to each Power Distribution Module. **DO NOT connect multiple batteries in parallel or series.** This will damage your system and void the warranty.
- ◆ The battery backup and charging uses advanced circuitry. Maximum charge rate is 650mA. Once the battery is fully charged it is maintained with an occasional 10mA charge. Ensure these ratings do not exceed the manufacturer's rating for the battery.
- ◆ Properly dispose of old batteries.

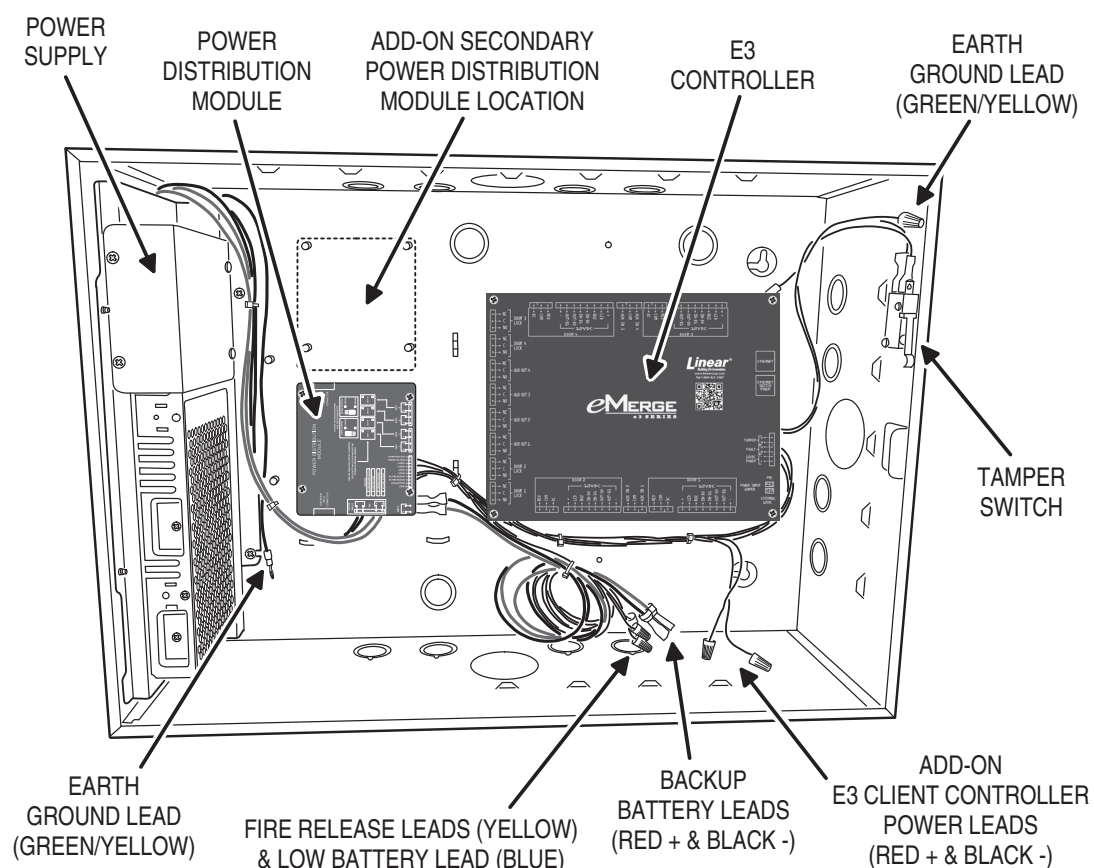


Figure 2. e3 Controller and Power Distribution Module in Metal Enclosure

Power Supply Connection

The Power Distribution Modules are pre-wired in the e3 Controller's metal enclosure.

1. Connect the e3 power cord to a 120 VAC un-switched power outlet.
2. Connect an earth ground to the green earth ground lead provided in the enclosure.
3. Apply AC power.
4. The power LEDs (DL17 and DL9) on the e3 Controller will turn on to indicate power is present.
5. Connect the leads to the backup battery.

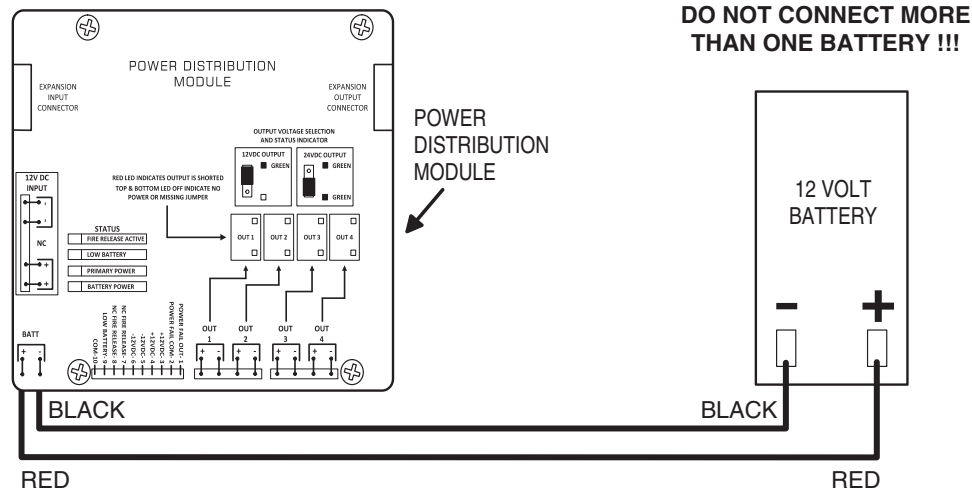


Figure 3. Battery Connection for Systems using Metal Enclosure

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Preparing for the Network

To allow the e3 Controller to be recognized on the local network, it is necessary to change the e3 Controller's IP address.

1. Connect your programming computer directly to the Ethernet port of the e3 Controller.
2. Assign a **static** IP address of **192.168.0.149** to the computer. For instructions on how to change the static IP address of a Windows computer, please visit: <http://technet.microsoft.com/en-us/library/ff710457>
3. After assigning the programming computer's static IP address, open a web browser and enter the IP address of the e3 Controller (the default is = **192.168.0.250**).
4. The e3 Controller presents the login page. To log on, enter the user name (default = admin) and password (default = admin).
5. Browse to the **Network Setting>IP address** page as shown. Enter the static IP address, Subnet Mask, Gateway and DNS server (provided by the network administrator) so that it matches the requirements of the local network.
6. Click **Save & Reboot** and the system will reboot. (Reboot will take approximately 2 minutes.) **Note:** The system data will be lost if the e3 Controller is powered down without performing **Save & Reboot**.
7. Disconnect the programming computer from the e3 Controller. The system is now ready for the local network.

Figure 4. Network Settings IP Address Page

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Connecting to the Network

1. Route an Ethernet cable through the opening in the enclosure nearest the Ethernet port.
2. Plug the RJ-45 connector into the Ethernet port on the e3 Controller.
3. Connect the Ethernet cable to the local area network (LAN).
4. If the network connection is functioning properly, the LAN LEDs on the e3 Controller will illuminate. The local computers will then be able to access the system by entering the IP address of the e3 Controller.

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Identifying the Server and Client

Some eMerge e3 Controller systems provide the ability to add additional e3 Controllers to expand the amount of doors, inputs, and outputs. These additional e3 Controllers are referred to as **clients**. A client can be mounted on top of the main e3 Controller (the **server**) or in a separate enclosure.

IP Installer is a utility located on a **thumb drive** shipped with all systems. This utility provides a simple method of identifying the IP address of the e3 Controller(s).

1. Connect all controllers to the local network.
2. Connect the thumb drive (included with the e3 Controller) to a Windows computer on the local network.
3. Locate **IPInstaller.exe** and double-click the file.
4. IP Installer will open. Click **Scan** to search the network for controllers.
5. When controllers are identified, they will be listed in IP Installer.

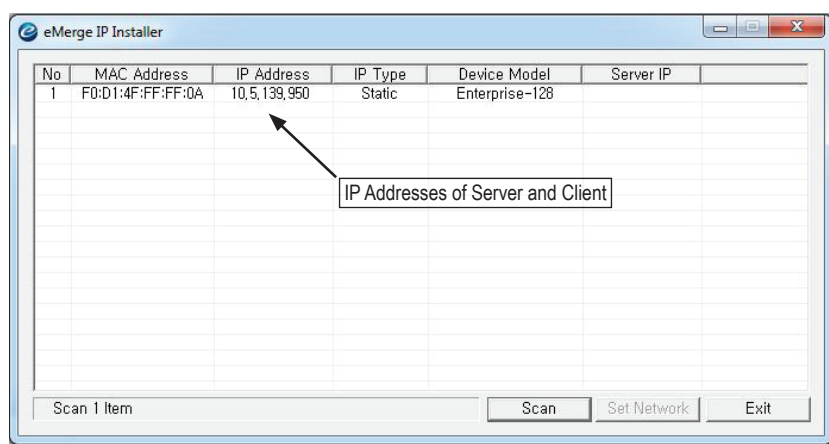


Figure 5. IP Installer Utility

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Configuring the Server and Client

The default IP address of the server and client is **192.168.0.250**. To avoid conflict on the network, the IP address of the e3 Controller client and e3 Controller server must be changed as follows:

1. Connect the e3 Controller server to the network.
2. Open IPInstaller.exe and click **Scan**.
3. Select the e3 Controller **server** from the list and click **Set Network**.
4. Enter a new IP address for the e3 Controller **server**. This information must be provided by the IT Administrator.
5. Change the Subnet Mask and Gateway to meet the requirements of the local network. This information must be provided by the IT Administrator.
6. Enter the IP Installer password (default = 4321) and click **OK**.
7. Connect the e3 Controller **client** to the network and repeat steps 1 through 4 to change the e3 Controller client's IP address.

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Assigning the Server to a Client

After the e3 Controllers are located on the network, the e3 Controller client must be linked to the e3 Controller server as follows:

1. Using a web browser on a local computer, enter the IP address of the e3 Controller client as configured in IP Installer.
2. The browser presents the login page.
3. To log on, enter the user name (default = admin) and password (default = admin).
4. After a successful log on, the browser presents the page (see Figure 6). Click **Edit**.

Figure 6. Client e3 Controller Network Information

5. Enter the IP address of the e3 Controller server as entered in IP Installer (see Figure 7).
6. Enter the password (default = admin) and click **Save**.

Figure 7. Editing Client e3 Controller Network Information

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Linking Client to Server

1. Using a web browser on a local computer, enter the IP address of the server as listed in IP Installer.
2. The browser presents the login page. Enter the user name and password (default = admin/admin).
3. After logging in, click *Client Management*.

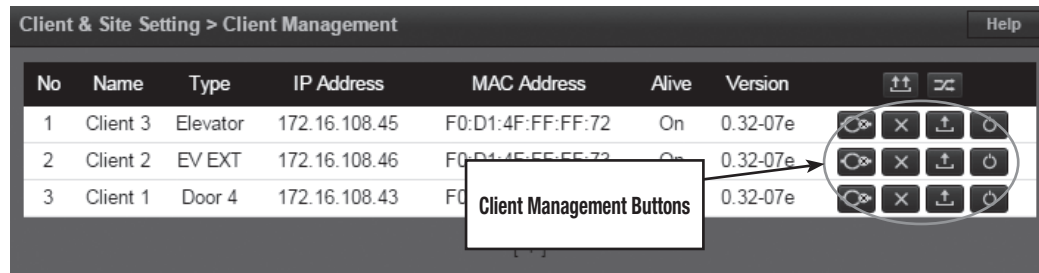



Figure 8. e3 Client Management Page

4. After logging in, select the Site Management icon, then the Client Management icon.
5. The client will appear in the list. Click the  button to connect the client to the server.

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Programming the System

The e3 eMerge system provides the ability to access and manage the system from a web browser on any local or remote computer. The system can be programmed using a simple Wizard tool, which allows the user to configure the basic settings of the system.

- ◆ Visit the Wizard at any time by clicking the icon  in the lower left corner of the e3 eMerge web page.

Refer to the *User Programming Guide* (P/N 620-100240) for specific programming and configuration instructions.

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