



LTE Connectivity Kit Quick Start Guide

WHAT'S IN THE BOX



Sierra Wireless ES450
LTE Cellular Gateway



AC Power Supply



RF Antennas (2)



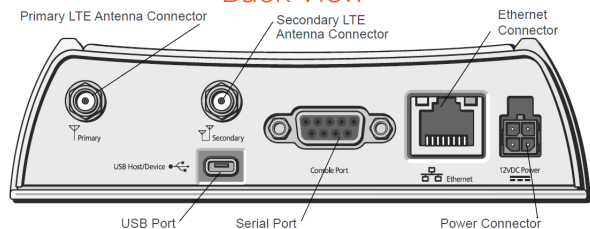
For Ethernet Models:
RJ45 to RJ45 CAT5

1. HARDWARE OVERVIEW

Front View



Back View

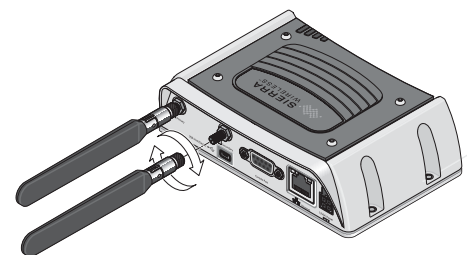
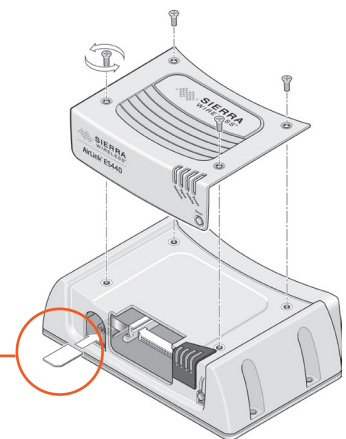


The Ethernet connection will be used to attach to your SLC 8000 Console Manager or SLB Branch Office Manager.

2. INSTALLING THE SIM CARD & ANTENNAS

Insert a SIM card into the ES Series device before connecting any external equipment or powering it up using a Phillips screwdriver:

- 1 Remove the four screws securing the cover. Save the screws for re-installation. Remove the cover.
- 2 Slide the SIM card into the SIM card holder. Note the orientation of notched corner of SIM card for proper alignment.
- 3 Reattach the cover using screws removed in **step 1**.
- 4 Connect both RF antennas, as shown in the illustration. Adjust the antennas so they are in a V-formation, with a separation of 90 degrees.
- 5 Connect the power cable to the gateway and apply power. The gateway starts automatically as indicated by the flashing LEDs. It automatically begins the activation process and attempts to connect to the network. This activation process typically takes 5 -10 minutes. Once the "signal" LED remains solid, proceed to the next step.





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3. CONNECT TO LANTRONIX SLC 8000 ADVANCED CONSOLE MANAGER / SLB BRANCH OFFICE MANAGER

Using the included CAT5 Ethernet cable, connect the ES450 LTE Gateway to the Ethernet2 (Eth2) connection of your SLC 8000 or SLB console unit. To complete your LTE Gateway set up, you may need to upgrade your SLC or SLB firmware to the appropriate version. (Minimum firmware version: SLC 8000: 7.6.0.1; SLB: 6.6.0.0)

1 Log into your Lantronix SLB or SLC 8000 console web manager. From the **Network** tab, change the Eth2 settings to "Specify" and enter the **IP address** and **Subnet Mask** shown below. It is also a best practice to "Specify" a static IP address on the Eth1 interface for proper fail-over functionality.

Ethernet Interfaces

<p>Eth1 Settings:</p> <p><input type="radio"/> Disabled</p> <p><input type="radio"/> Obtain from DHCP</p> <p><input type="radio"/> Obtain from BOOTP</p> <p><input checked="" type="radio"/> Specify:</p> <p>IP Address: <input type="text" value="172.20.198.131"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>IPv6 Address: <input type="text" value=""/></p> <p>(Static)</p> <p>IPv6 Address: <input type="text" value="fe80::220:4aff:fe9d:35c/64"/></p> <p>(Link Local)</p> <p>Mode: <input type="text" value="Auto"/></p> <p>MTU: <input type="text" value="1500"/></p>	<p>Eth2 Settings:</p> <p><input type="radio"/> Disabled</p> <p><input type="radio"/> Obtain from DHCP</p> <p><input type="radio"/> Obtain from BOOTP</p> <p><input checked="" type="radio"/> Specify:</p> <p>IP Address: <input type="text" value="192.168.13.20"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>IPv6 Address: <input type="text" value=""/></p> <p>(Static)</p> <p>IPv6 Address: <input type="text" value=""/></p> <p>(Link Local)</p> <p>Mode: <input type="text" value="Auto"/></p> <p>MTU: <input type="text" value="1500"/></p>
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3 Default login credentials will be entered automatically. It is **strongly recommended** to change your Admin password immediately in the highlighted section!

Admin Login:

Admin Password:

Change Admin Password:

New Admin Password:

Retype:

Reboot Gateway When Making Changes:

4 Under **Fail-Over Settings** - Enter the **Fail-over Gateway IP Address** as: **192.168.13.31**. This is the IP address of the ES450 Gateway.

Fail-Over Settings

Fail-over Gateway IP Address:

2 From the **Network** tab, **Fail-Over Cellular Gateway Configuration** section, select **Fail-over Device**: "Sierra Wireless ES450" in the drop-down menu. Next, enter **APN of Mobile Carrier** for SIM card provided by your mobile carrier. Next select the **Reboot Gateway When Making Changes** toggle.

If a PIN is required, select the **PIN Lock** toggle and enter appropriate PIN. Otherwise leave blank.

Fail-Over Cellular Gateway Configuration

Fail-over Device:

APN of Mobile Carrier:

Admin Login:

Admin Password:

Change Admin Password:

New Admin Password:

Retype:

Reboot Gateway When Making Changes:

Advanced Cellular Gateway Configuration

SIM Card PIN Lock:

PIN # for SIM Card:

Retype:

SIM PUK:

Retype:

5 Under **Fail-Over Settings**, set **IP address to Ping** to a remote host accessible only over Ethernet1 on your network. When this IP address is unreachable, the SLC or SLB will fail-over to the Gateway connected to the Eth2 port.

Fail-Over Settings

Fail-over Gateway IP Address:

IP Address to Ping to Trigger Fail-Over:

Ethernet Port for Ping: Eth1 Eth2

Delay between Pings: seconds

Number of Failed Pings:

6 Click **Apply** to accept changes. The SLC/SLB will make the setting changes and your ES450 Gateway will reboot. This process typically takes from 2-5 minutes. Fail-over is now enabled to your LTE cellular gateway.

Apply

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.

If interested in obtaining SIM cards for evaluation purposes, please contact your Lantronix Sales Representative (800) 422-7055 or sales@lantronix.com.