3. Place the mounting bracket on placement and orientation, see the on your installation surface). For best hardware may be required depending horizontally or vertically on the wall (some additional ceiling, using it as a template, mark the holes with a pencil. the ceiling or wall and, using it as a

4. Using the Mounting Bracket (Continued)

4. Using the Mounting Bracket

The Network Extender can be installed horizontally or vertically on the ceiling, or vertically on the wall (some additional hardware may be required depending on your installation surface). For best placement and orientation, see the Deployment Guide.

1. Remove the tape that is holding the ceiling clip to the bracket.

2. Remove both parts of the ceiling clip from the mounting bracket, as shown. Note: The clips are used when installing on a ceiling joist (M-bar or T-bar). (See the Installation Manual for detailed instructions.)

3. Place the mounting bracket on the ceiling or wall and, using it as a template, mark the holes with a pencil. Remove the bracket and pre-drill the holes. Note: When using the mounting bracket on a wall, position with the flat edge up, as shown, so that your Extender will lock into place.

4. Using a hammer to insert the 4 plastic anchors into the drilled holes. Align the mounting bracket with the anchors and fasten it to the wall with the four M4 x L28 screws.

Note: The remaining screws are for use with the ceiling clips, if installing from a ceiling joist (M-bar or T-bar). (See the Installation Manual for detailed ceiling mount instructions.)

5. Before attaching the Network Extender to the mounting bracket, make sure all the cables are connected. (See 5. Connecting the Cables.) Align the Network Extender with the 3 holes on the mounting bracket and turn clockwise to fix it in place. Then, install the power supply on the wall using the provided mounting hardware.

5. Connecting the Cables

1. Connect the included GPS antenna or a GPS extension cable (available from any third-party GPS supplier) to the attached SMA elbow joint on the Network Extender. Note: If using the included antenna, you can remove the elbow joint with a 5/16” (8mm) wrench and attach the antenna directly to the GPS port to make it easier to run the antenna cable through the cable tray as noted in step 4.

2. Attach the Power Supply cable to the Network Extender.

3. Attach the Ethernet cable from your router or modem’s LAN port to the Network Extender unit’s B/H port for network connectivity.

4. Route the cables in the cable tray. Refer to the picture on next page for details.

5. Connect the Power Cord to the Power Supply and plug it into a wall outlet. The Network Extender will turn on.

Note: Use of anti-static gloves is recommended when handling the Network Extender.

4G LTE Network Extender 2 for Enterprise

In-box Contents

- 1 x Network Extender
- 1 x GPS antenna
- 1 x Indoor GPS antenna and 27' cable
- 1 x Power cord and Ethernet cable
- 1 x Mounting Bracket
- 1 x Indoor GPS antenna
- 1 x Ceiling clips

Port Name Function

GPS To connect GPS antenna and receive GPS signals.

PWR To connect Power Supply (12V DC).

B/H Port to connect Ethernet cable with router.

LMT Local Monitoring Terminal Port. To manage setting and display device status.

RESET Factory Reset. Press RESET hole over 10 seconds with thin tool.

For general safety and precautions, see Product Safety and Warranty Information.

Network Extender Requirements

- Internet Access: High speed wired broadband with a minimum download speed of 20 Mbps and upload speed of 10 Mbps.

For best performance follow the backhaul and bandwidth requirements and specific firewall settings noted in the User Guide.

GPS Signal

The Network Extender requires a strong GPS signal and includes a GPS antenna for indoor use. For information on using an outdoor GPS antenna, please refer to the User Guide.

Placement

Place the Network Extender in a location that:

- Has a good GPS signal.
- Is at least 12 feet away from products that generate electromagnetic radiation (e.g., microwave ovens, WiFi Access Points).
- Is not near electrical equipment.
- Is central to users

For general safety and precautions, see Product Safety and Warranty Information.

For general safety and precautions, see Product Safety and Warranty Information.
6. Startup Sequence with Troubleshooting Tips

<table>
<thead>
<tr>
<th>Network Extender Status</th>
<th>LED State</th>
<th>Description &amp; Troubleshooting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Configuration Download</td>
<td>4 yellow blinks</td>
<td>Software download not complete, check cable connection. If the LED does not blink, refer to software configuration troubleshooting. If it blinks, you must wait until all LEDs are off before continuing. The unit will then boot to its last known state. If there is a file transfer issue, please check the USB connection and/or file system.</td>
</tr>
<tr>
<td>Software Configuration in Progress</td>
<td>Fast blinking green</td>
<td>Software configuration not complete, check cable connection.</td>
</tr>
<tr>
<td>Software Configuration Complete</td>
<td>Full green light</td>
<td>Software configuration completed successfully.</td>
</tr>
<tr>
<td>Power off</td>
<td>Green light</td>
<td>Power is off.</td>
</tr>
<tr>
<td>Power on</td>
<td>Green light</td>
<td>Power is on.</td>
</tr>
</tbody>
</table>

Alarms with Troubleshooting Tips

<table>
<thead>
<tr>
<th>Network Extender Status</th>
<th>LED State</th>
<th>Description &amp; Troubleshooting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holdover Exceed Alarm “ON”</td>
<td>3 yellow blinks</td>
<td>Check that the Ethernet cable is properly connected to the Network Extender and that the cable is not defective.</td>
</tr>
<tr>
<td>Holdover Exceed Alarm “OFF”</td>
<td>Full green light</td>
<td>The system has reached holdover and the alarm has been cleared.</td>
</tr>
<tr>
<td>Holdover Failed Alarm “ON”</td>
<td>4 red blinks</td>
<td>Check that the Ethernet cable is not defective and properly connected to the Network Extender and that the cable is not defective.</td>
</tr>
<tr>
<td>Holdover Failed Alarm “OFF”</td>
<td>Full green light</td>
<td>The system has reached holdover and the alarm has been cleared.</td>
</tr>
<tr>
<td>Ping Alert</td>
<td>Yellow light</td>
<td>Check that the Ethernet cable is not defective and properly connected to the Network Extender and that the cable is not defective.</td>
</tr>
<tr>
<td>Power off</td>
<td>Green light</td>
<td>Power is off.</td>
</tr>
<tr>
<td>Power on</td>
<td>Green light</td>
<td>Power is on.</td>
</tr>
</tbody>
</table>

7. Accessing Your Network Extender’s Admin Website

You can manage your Network Extender’s settings from its Admin website. There are 2 ways to access the site:

1. Connect via a computer that is directly connected to the LMT port:
   a. Adjust your computer’s LAN IPv4 settings.
   c. Under Properties, select Use the following IP and enter 192.168.32.28.
   d. Select Subnet Mask 255.255.255.0.
   e. Click OK.

2. Open a browser and enter http://192.168.32.28.

To connect via a computer a that is directly connected to the LMT port:

1. Find out the Network Extender’s IP address from the ARP table or via the LMT port.
2. Open a browser and enter http://<Network Extender’s IP address>.
3. Find out the Network Extender’s IP address from the ARP table or via the LMT port.

For safety, make sure the attached cables do not come in contact with the unit’s metal heat transfer fins. To avoid this, route the cables through the cable tray or secure with a cable tie, as shown above.

8. Troubleshooting No GPS Signal

If the unit remains in this state (3 yellow blinks) for 15 minutes, sign in to the Admin website and see the GPS signal strength or TFTP server status. If the GPS signal is weak, you may need to relocate the indoor antenna or install an outdoor antenna.

Is my wireless device connected to the Network Extender?

Check the Network Extender “Home” icon on your Android devices or dial #48 on your phone.

Can’t reach Network Extender GUI or locked out of device.

Insert the end of an unfolded paper clip or pin into the hole on the back of the Network Extender and press for 10 seconds. The unit will restart (solid red LED) and come up with factory default settings.

Port Down

If the LED blinks alternating red and yellow, check the Status and Alarms page in the About tab of the Admin website.

Support

For complete installation and operational information tips, see the User Guide at www.verizonwireless.com/NetworkExtender.

To contact Verizon Customer Service, call 800.922.0204.

Verizon 4G LTE Network Extender 2 for Enterprise Quick Start Guide

SAMSUNG

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