Dell EMC Edge 510 LTE
Setup Guide

Abstract

This document provides setup steps for the Dell EMC Edge 510 LTE networking switch. It includes installation, activation, and specifications.

Dell Solutions

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Notes, cautions, and warnings

(i) **NOTE:** A NOTE indicates important information that helps you make better use of your product.

△ **CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.**

⚠ **WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**

Contents

Edge 510 LTE

The Dell EMC Edge 510 LTE is a purpose-built, high-value appliance for Edge use case that supports SD-WAN with an integrated LTE adapter.

For detailed installation information, including instructions for the wall mount and optional dual rackmount tray installation, see the *Dell EMC Edge 510 LTE Installation Guide* at www.dell.com/support.

After unpacking the Edge 510 LTE, inspect the device and immediately report any damage to your Dell EMC sales representative.

Topics:

Installation instructions

Information icon definitions:

● The Warning icon signals information about hardware handling that could result in injury.
● The Caution icon signals information about situations that could result in equipment damage or lost of data.
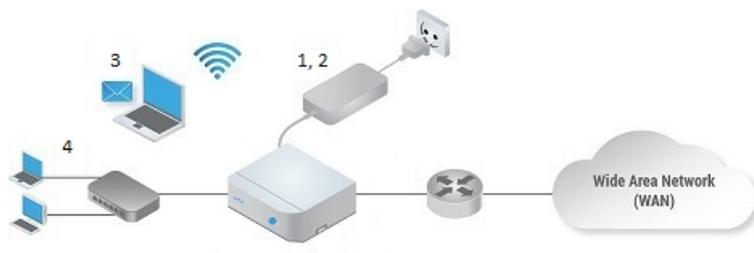● The Note icon signals important operational information.

Install the device

⚠ **WARNING: To avoid electrostatic discharge (ESD) damage, wear grounding wrist straps when handling this equipment.**

Install the device in an area that meets the following safety requirements:

● Near a properly grounded AC power outlet.
● In a temperature-controlled room with a continuous temperature range from 0°C to 40°C (32°F to 104°F)
● In a dry, clean, and well-ventilated room away from heat sources such as hot air vents or direct sunlight
● Away from severe electromagnetic noise
● Away from direct view within the workplace

The numbers one through four in the following figure correspond to the setup procedure:

1. Connect the two identical antennas (included in the box) to the MAIN and AUX SMA connectors on the back of the Edge. The GPS antenna (not included) is optional.

   (i) **NOTE:** An active GPS antenna recommended for an excellent performance. A passive antenna with high gain will work if the unit/antenna is close to a window.

Figure 1. Connect antennas

2. Remove the small phillips screw on the door for SIM access. Two SIM slots are available. However, **only use the lower** SIM slot and insert the SIM card with the contacts facing up until it clicks into place.

   (i) **NOTE:** Must insert SIM card with the **contacts facing up** until it clicks into place.

Figure 2. Insert SIM card

3. Connect the power adapter to the AC power outlet. Connect the DC power plug to the DC power port on the Edge unit and turn the thread on the plug to lock it. When the Edge powers ON, the round indicator light located on the front of the Edge will illuminate.

   (i) **NOTE:** Connect the device to a properly wired earth-ground AC power outlet.

Figure 3. Connect the power adapter to the AC power outlet

4. Connect the Edge 510 LTE to an available Internet connection. For wired connections, insert the Ethernet cable in either the GE3 or GE4 ports. For activating LTE, refer to the `Configure Edge activation` in the `Edge 510 LTE Installation guide`. When the WAN is operational, the front indicator light will turn green.

   (i) **NOTE:** Use **ONLY** GE1 or GE2 1 Gb Ethernet ports for WAN connection to a laptop or switch.

Figure 4. Connect to Internet

   - GE3 or GE4 ports

5. If you received an email from your IT administrator, follow the instructions in the email to complete the Edge activation.
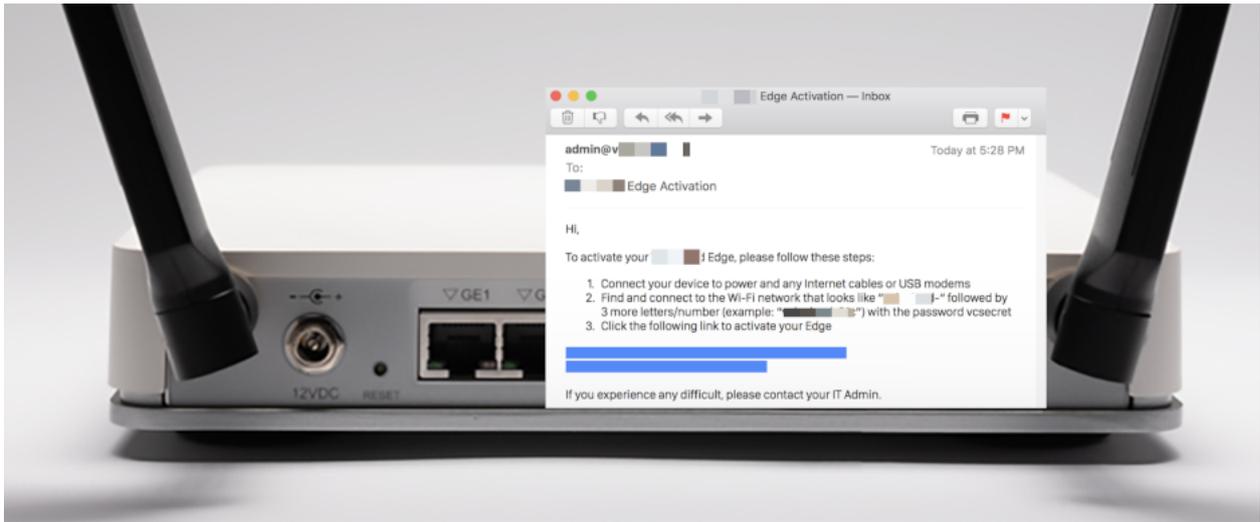
Figure 5. Edge activation email

6. Connect local devices such as computers and switches to either of the ports labeled GE1 or GE2, or through the Edge's Wi-Fi.

    ⓘ **NOTE:** Use **ONLY** GE1 or GE2 1 Gb Ethernet ports for WAN connection to a laptop or switch.

- GE1 or GE2 ports

Activation issues

Unable to activate the Edge 510-LTE

After following these instructions, if you are still unable to activate the Edge 510-LTE, please contact www.dell.com/support/

Specifications

Table 1. Edge 510 LTE specifications

Feature	Specification
Size	8.1 in x 7.1 in x 1.57 in (W x D x H) 20.6 cm x 18.0 cm x 4.0 cm (W x D x H)
Weight ⓘ **NOTE:** Platform weight does not include power adapter weight.	2.0 lb 0.91 Kg
AC power input	100 VAC–240 VAC, 50/60 Hz
AC maximum current draw per system	100 VAC: 2.0 A 240 VAC: 1.0 A
Typical power consumption	15W
Maximum power consumption	28W
RoHS information	Go to: Restricted Material Compliance.

Table 2. Edge 510 LTE temperatures

Feature	Specification
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	−40°C to 70°C (-40°F to 158°F)
Operating relative humidity	5% to 85% (RH), non-condensing continuously 5% to 90% (RH), non-condensing short term (< 1% of operational hour per year)
Storage relative humidity	5% to 90% (RH)
Operating altitude	- Maximum: 10,000 feet (3,048 meters) - No performance degradation up to 3,117 feet (950 meters)