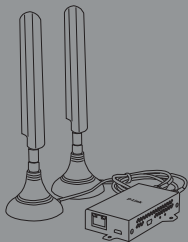




Quick Installation Guide 4G LTE M2M Modem

This document will guide you through the basic installation process for your D-Link 4G LTE M2M Modem.

DWM-311



Quick Installation Guide

Before You Begin

This Quick Installation Guide gives you step-by-step instructions for setting up your DWM-311 4G LTE M2M Modem. The model you have purchased may appear slightly different from the one shown in the illustrations. For more detailed information about the modem, please refer to the User Manual.

Package Contents

This DWM-311 package should include the following items:

- DWM-311
- USB AC Adaptor
- Mini-USB power cable
- 5.5 mm DC-to-Mini-USB adaptor
- RJ-45 cable
- [2] Interchangeable blade antennas
- [2] Magnetic antenna mounts
- Quick Installation Guide

If any of the above items are damaged or missing, please contact your local D-Link reseller.

Hardware Overview

Front Panel

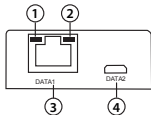


Figure 1

#	Item	Description
1	Ethernet Activity	Flashes yellow when there is Ethernet traffic.
2	Link Status	Green light indicates there is an active link.
3	Ethernet Port	This is a standard 10/100 Mbps Ethernet port to connect any device via Cat 5/5e/6 RJ-45 cables.
4	Micro-USB 2.0 Port	This is a micro-USB 2.0 port for connecting any device via a standard micro-USB cable.

Table 1

Side Panel

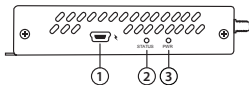


Figure 2

#	Item	Description	
1	Mini-USB Power	The DWM-311 accepts power through a mini-USB connector.	
2	Status LED	Solid green	Indicates strong signal
		Flashing	Indicates weak signal
		Off	Indicates no signal
3	Power LED	Solid green indicates the modem is receiving power.	

Table 2

Top Panel



Figure 3

#	Item	Description
1	Wall Mounts	Wall mounts for standard 8 gauge (4 mm) screws
2	SMA Connector PRI¹	SMA female connector - Primary antenna
3	SMA Connector DIV¹	SMA female connector - Antenna Diversity

¹ Included antennas are interchangeable, but third party antennas may not be.

Table 3

Hardware Installation

Before You Begin

Observe the following precautions to help prevent shutdowns, equipment failures, and personal injury:

- Install the DWM-311 in a cool and dry place. Refer to the technical specifications in the user manual for the acceptable operating temperature and humidity ranges.
- Install the modem in a site free from strong

electromagnetic sources, vibration, dust, excessive moisture, and direct sunlight.

- Place antennas in an unobstructed area with clear LTE signal. Avoid metal boxes, brick walls, and other dense materials. Use the web interface to confirm signal strength before permanent installation.
- Visually inspect the power connector and make sure that it is fully secure.
- Do not stack any devices on top of the modem.

Attach the External Antennas

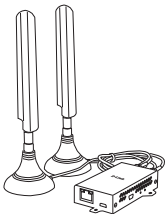


Figure 4: Attaching External Antennas

The DWM-311 requires two external antennas to function correctly. The included antennas are interchangeable, but third party antennas may require connection to specific ports.

1. Attach the antennas to the included magnetic mounts. Turn the hex nut clockwise to fasten the antenna.



Figure 5: Attaching Antenna to Magnetic Mount

2. Place antennas where they will receive optimal signal. Arrange them so they point upward.

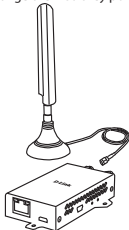


Figure 6: Attaching Antenna to Modem

3. Once the antennas are placed, attach both antenna cables to the DWM-311's external SMA connectors, labelled DIV and PRI. Turn the hexnut clockwise to secure the cables.

Note: The included antennas are interchangeable. Third party antennas may require connection to specific ports.

Powering the Modem

The modem can be powered either directly via mini-USB or via Power over Ethernet (PoE) using a PoE splitter.

Using included Mini-USB cable


Use the included mini-USB cable to power the modem. Attach the USB connector to the included AC adaptor. Attach the AC adaptor to a wall socket. Insert the mini-USB connector into the port on the modem labelled with the Ψ symbol. The power LED will turn green to indicate the modem is receiving power.

Using PoE

The DWM-311 can be powered via Power over Ethernet (PoE) by connecting the included 5.5 mm DC to mini-USB adaptor to a PoE splitter. This may be useful when long cable lengths required. Standard PoE has a range of up to 330 ft (100 m). The following steps outline setting up the modem with a PoE Splitter/Injector kit (sold separately).

1. Verify your PoE splitter is set to output 5 volts.

Warning: Higher voltages may damage the DWM-311.

2. Attach the PoE splitter's DC-OUT to the DWM-311's mini-USB power input. The power input is labelled with the  symbol.
3. Attach the PoE splitter's LAN OUT to the DWM-311's DATA1 port on the DWM-311.
4. Finally, connect the PoE injector's LAN-IN port to an available Ethernet port on your end device and plug in the injector's power cord into a power outlet as shown in figure 5.

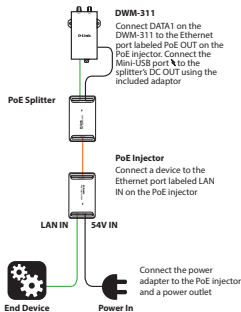


Figure 7: Powering with a PoE injector

Note: The above case assumes you are using a D-Link DPE-301GI 1-Port Gigabit PoE Injector and D-Link DPS-301GS 1-Port Gigabit 30W PoE Splitter (both sold separately). Other PoE configurations may vary.

Connecting Devices

After the DWM-311 has been successfully installed, the modem can be connected to the end device via either of the following connection methods:


Over Ethernet

The Ethernet port can be connected to an end device. Use a standard Category 5/5e/6 RJ-45 Ethernet cable to connect the end device to the modem. The port

will auto-negotiate to the highest possible port speed based on the connected device. Note that the DWM-311 supports a maximum transfer speed over Ethernet of 100 Mbps.

Over USB 2.0

To connect the modem over USB, connect a micro-USB cable (not included) to the port marked DATA2 on the back panel. Insert the other end of the cable into a free USB port of the device you wish to connect.

Note: The modem cannot accept power over micro-USB, only over mini-USB through the port labelled with the  symbol.

Diagnostics and Advanced Settings

To access the Web UI of the modem, open a web browser on a connected device and navigate to 192.168.17.1 for Ethernet connected devices, and 192.168.15.1 for USB 2.0 connected devices. The default user name is **admin** and the default password is **admin**.

After login, the UI displays an overview of the modem's current status. Diagnostics and advanced settings can be accessed by clicking the **Diagnostics** button.

Additional Information

You can refer to the user manual or visit <http://support.dlink.com> online for more support.

• D-Link 4G LTE M2M Modem User Manual

This manual describes the general installation and how to connect the modem in various scenarios.

Technical Support

Technical Services can be contacted Monday-Friday 7am-4pm (Pacific) at 1-877-354-6555 (USA only).

Firmware and documentation is available at <http://support.dlink.com>.

Warranty Information

The D-Link Limited Lifetime Warranty information is available at <http://warranty.dlink.com>.

NOTES

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