D-Link®

DWM-311-TP

4G M2M PoE Modem

Key Features

Plug and Play

PoE Connectivity PSE

SMS Event Management

VPN Security

Industrial Grade Design

Management Platform

Applications

- Traffic Light
- Small Shop
- Surveillance
- AMR

D-Link's DWM-311-TP 4G M2M PoE Modem provides 4G-LTE cellular capability. Equipped with a Fast Ethernet port and supporting 802.3af/at PoE, this modem ensures rapid and reliable connection to any local device, providing both power and data over a single cable for streamlined deployment.

Empower Weather Monitoring with 4G

The DWM-311-TP 4G M2M PoE modem harnesses the power of 4G to deliver seamless data transfer, ensuring dependable connectivity. Ideal for environmental sensing in a wide range of application fields, this plug-and-play modem simplifies installation for quick deployment. The DWM-311-TP offers reliable connectivity for real-time monitoring of temperature, humidity, and meteorological data.
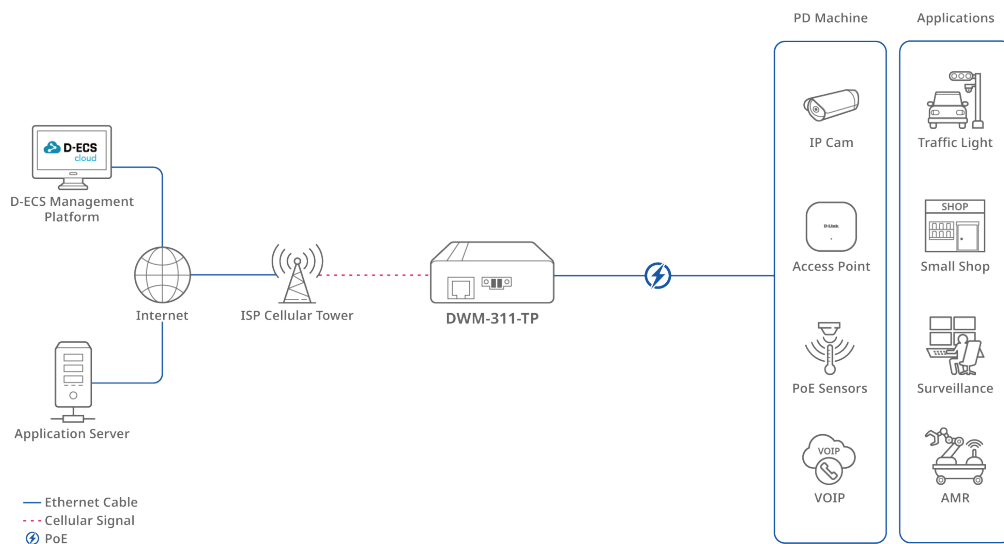
Empower Your M2M Network with PoE+

The DWM PoE Modem Series, featuring 802.3af/at Power over Ethernet (PoE+) technology, delivers both data and power through a single Ethernet cable. As a true PSE (Power Sourcing Equipment) solution, it streamlines M2M communication for IoT applications, reducing the need for separate electrical infrastructure and lowering installation costs. Ideal for powering surveillance cameras, digital signage, wireless access points, and IoT sensors, it offers flexible device placement without extra wiring. Its PD-Alive feature minimizes downtime, ensuring continuous operation, while PoE scheduling optimizes power use and cuts energy costs.

Robust Build Quality

The industrial-grade casing provides reliable high-speed connectivity in extreme conditions. The corrosion resistant zinc-plated steel case with wide operating temperature range and humidity tolerance mean that the DWM-311-TP is ready for the most demanding M2M applications in virtually any environment. Convenient DIN-rail mounting options allow the DWM-311-TP to be mounted virtually anywhere to optimize signal quality. The DWM-311-TP is also engineered to safely accept wide input voltage (VDC 48-57V) fluctuations, providing more flexibility and convenience when selecting a suitable power source, making your M2M installations significantly more reliable and much easier to deploy.

Connection Diagram

Specifications

Device Interface

- Cellular: 4G LTE Cat 4
- SIM Slot: 1 x SIM (4FF Nano SIM)
- Ethernet: 1 x FE PoE LAN port with PoE-PSE 802.3at
- PoE Max Power per Port (at PSE): 30 W max
- PoE Power Budget (at PSE): 30 W
- Power Input: DC 48-57 V terminal block
- Antenna Connectors: 2 x SMA (F) cellular

Performance[1]

- Maximum Cellular Data Throughput:
  - LTE: 150 Mbps (DL) / 50 Mbps (UL)

WAN

- WAN Interface: Cellular
- Cellular: NAT, bridge
- Connection Monitoring: Ping query reboot

Network

- LAN: DHCP server
- DDNS: DynDNS, No-IP, dynamic DO
- PoE Functions: PD failure check, PoE scheduling

Services

- Event Management: SMS

VPN

- VPN Tunnel: OpenVPN

Security

- Firewall: IPS, port forward
- Access Control: MAC/IP filter

Administration

- Management: D-Link D-ECS[2]
- Maintenance: Web UI
- System: FW upgrade, reboot and reset

Monitoring

- Device Status: Connection information
- Cellular Status: Cellular information/status, cellular signal quality
- Security: VPN status

Operating Environment

- Operating Temperature: -30 to 70°C (-22°F to 158°F)
- Storage Temperature: -40 to 85°C (-40°F to 185°F)
- Operating Humidity: 10% to 95% non-condensing
- Storage Humidity: 0 to 95% non-condensing
- Dimensions: 78 x 70 x 29 mm

Certifications and Approvals

- Certifications: CE, UKCA
- Cyber Security: EN 18031-1, EN 18031-2

Package Contents (Standard)

- 2 x Cellular SMA Antennas
- 1 x RJ-45 Cable
- 1 x Power Adapter
- 1 x Terminal Block (2-pin)
- 1 x DIN-Rail Kit

Available Versions

EU SKU (HW: A1)		
4G LTE	FDD: B1/B3/B7/B8/B20/B28A	
	TDD: B38/B40/B41	

1 Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.
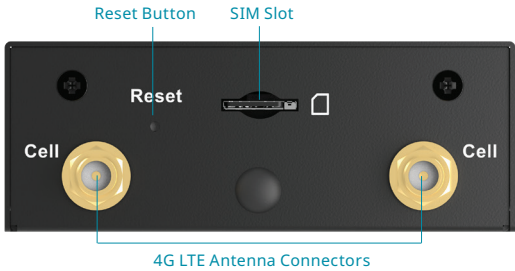
2 You only have to pay a M2M device license fee when applying for D-ECS license.

Hardware

Front View

Status LEDs

LAN

PoE

PW GNI

PoE LAN Port

Power Connector

GND Connector

Back View

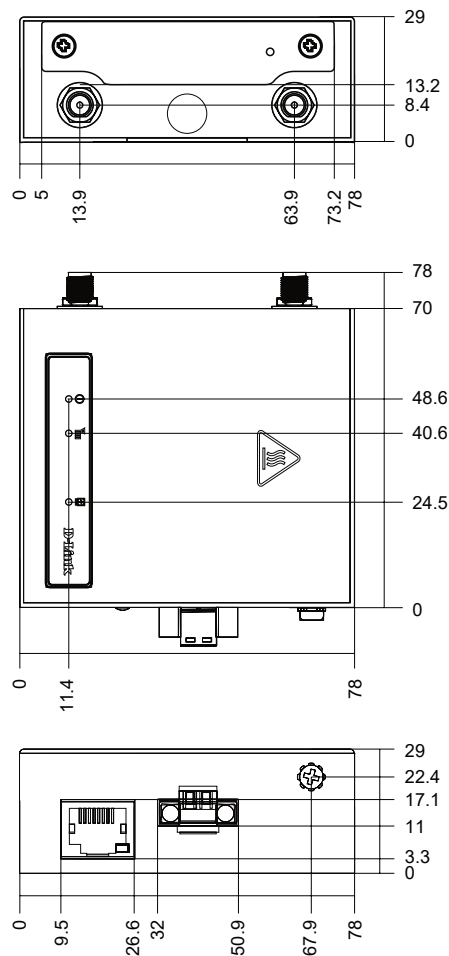Reset Button

SIM Slot

Reset

Cell

Cell

4G LTE Antenna Connectors
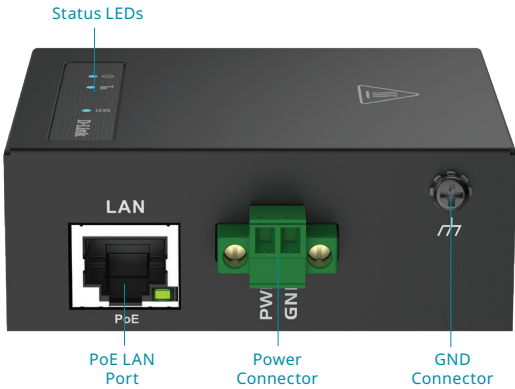
Spatial Measurement

The following diagrams provide the product's physical dimensions measured from top, front, left, and right views for installation and integration reference.

Unit: mm

Mounting Space Requirements

D-Link®