D-Link®

DWM-311-G
5G M2M Modem

D-Link's DWM-311-G 5G M2M modem offers cutting-edge 5G-NR and LTE dual-mode cellular connectivity. This modem is equipped with a 2.5 Gigabit Ethernet port, perfect for connecting local devices that require high throughput, ensuring optimal performance for demanding applications.

Key Features

5G SA & NSA

2.5 Gbps LAN Port

Bridge / NAT Mode

VPN Security

Industrial Grade Design

Management Platform

Applications

- Parking Lot
- Small Shop
- Surveillance
- Self-Service

Enhance EV Charging with 5G Speed

The DWM-311-G 5G M2M Modem, with its ultra-fast 5G speeds and low latency, provides robust connectivity designed to streamline EV charging operations. It enables real-time monitoring of charging stations and enhancing the user experience. Featuring secure VPN protection, it ensures safe data transmission and remote access, protecting against external threats and simplifying maintenance to further drive cost-efficiency.

Plug & Play for Easy Installation

Simply insert a Micro-SIM card and power up; the DWM-311-G instantly connects your M2M devices to the high-speed 5G cellular network. This modem's rugged, compact design is perfect for any setting, including harsh environments, offering flexible wall and DIN-rail mounting options. Designed for effortless, real-time remote access, it provides reliable long-distance connectivity ideal for various applications. It supports 4G/5G switching, making it stable connectivity and ideal for small-scale deployments where quick setup and robust connectivity are crucial.
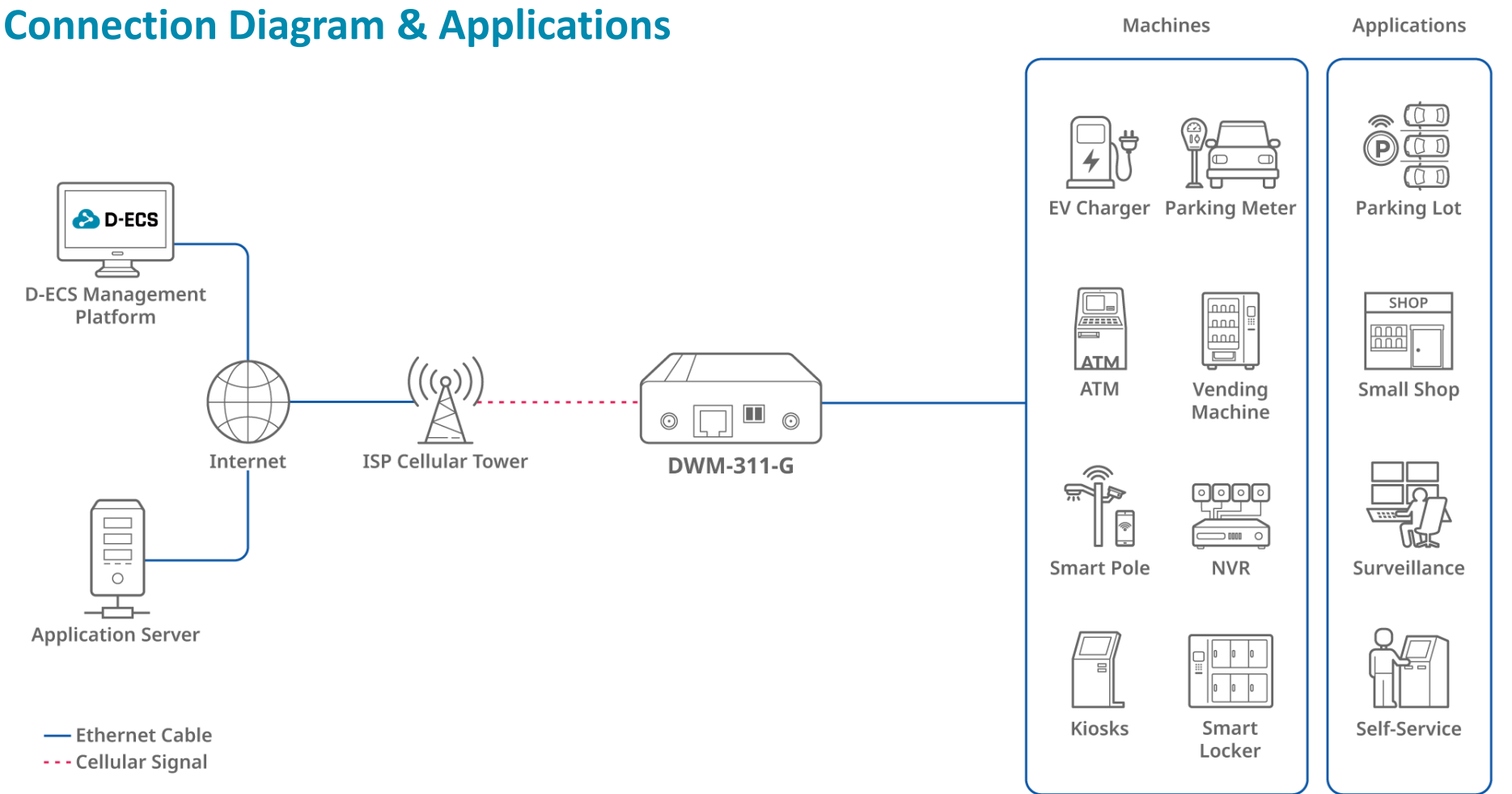
Robust Build Quality

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-G is ready for the most demanding M2M applications in virtually any environment.
The DWM-311-G is also engineered to safely accept wide input voltage(VDC 5~32V) 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 & Applications

D-ECS Management Platform

Application Server

Internet

ISP Cellular Tower

DWM-311-G

Machines

Applications

EV Charger

Parking Meter

Parking Lot

ATM

Vending Machine

Small Shop

Smart Pole

NVR

Surveillance

Kiosks

Smart Locker

Self-Service

— Ethernet Cable
--- Cellular Signal

Specifications

Device Interface
- Cellular Module: 5G/4G 3GPP Rel. 16
- Cellular Standards: 5G NR(Sub-6GHz), 4G LTE(DL Cat.19/UL Cat.18)
- SIM Slot: 1* SIM (3FF Micro)
- Ethernet: 1* RJ45 LAN 2.5GE
- Power Input: DC 5-32V (TB)(2-pin)
- Antenna Connector: 4*SMA(F)-Cellular

Performance[1]
- Maximum Cellular Data Throughput:
  5G NSA: 3.4 Gbps (DL) / 550 Mbps (UL)
  5G SA: 2.4 Gbps (DL) / 900 Mbps (UL)
  LTE: 1.6 Gbps (DL) / 200 Mbps (UL)

WAN
- Cellular: NAT, Bridge Mode
- Network Monitor: ICMP Checking

Network
- DHCP : DHCP Server
- Port Forward: Virtual Server
- DDNS: DynDNS, No-IP, Dynamic DO
- IPv4/v6

VPN
- VPN Tunnel: OpenVPN
- VPN Usage: Client mode

Administration
- Configuration: Web UI, SSH
- Management: D-Link D-ECS[2]
- System: FW Upgrade, Reboot & Reset, System Time, NTP Service
- Scheduling: reboot rule policy, working day
- SMS Service: SMS Inbox, SMS Event Management

Status
- Network Status: Connection information, Cellular Signal Quality
- Cellular Mobile: Cellular Modem Information/Status, Cellular Network Status, Cellular Signal Quality
- Client: Client List
- Security: VPN Status

Environment
- OP/Store Temp.:
  Operating Temperature -30 to 70 ˚C (-22 ˚F to 158 ˚F)
  Storage Temperature -40 to 85 ˚C (-40 ˚F to 185 ˚F)
- Humidity:
  Operating Humidity 10% to 95% non-condensing
  Storage Humidity 0 to 95% non-condensing
- Dimensions: 77.4 x 68.5 x 26 mm

Standard Package
- 4* Cellular SMA Antennas
- 1* RJ-45 Cable
- 1* Power Adapter
- 1* Terminal Block (2-pin)

Available Versions

SKU List[3]	
EU SKU (HW: A2): • **5G NR:** n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n71/n75/n76/n77/n78 • **4G LTE:** FDD: B1/B3/B5/B7/B8/B20/B28/B32/B71 TDD: B38/B40/B41/B42/B43	**Global/US SKU (HW: A3):** • **5G NR:** n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/ n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79 • **4G LTE:** FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/ B25/B26/B28/B29/B30/B32/B66/B71 TDD: B34/B38/B39/B40/B41/B42/B43/B46(LAA)/B48

Certifications & Approvals	
Certification • CE • UKCA • FCC • PTCRB	**Approval[4]** • AT&T • Verizon

[1] Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.
[2] D-ECS License fees will apply.
[3] Supported frequency band is dependent upon hardware SKU.
[4] By Region Request.

5G NR Antenna

Cell   Ethernet   PWR GND   Cell

LAN Port   Power Input

5G NR Antenna

Cell   Reset   Cell

Reset Button   SIM Slot

D-Link