D-Link®

DWM-314-GP
5G Multi-Connect PoE Modem

Key Features

WAN Status Monitoring

Dual-SIM Failover

VPN Security

2 Ports PoE PSE

Industrial Grade Design

Management Platform

Applications

- Traffic Light
- Small Shop
- Surveillance
- Bus Stop

D-Link's DWM-314-GP 5G Multi-Connect PoE Modem provides 5G-NR and 4G-LTE dual-mode connectivity. It also features four Gigabit Ethernet ports , including two ports equipped with PoE functionality, for connectivity extension to meet M2M application requirements.

Reliable 5G Failover for M2M

The DWM-314-GP 5G modem is specifically designed for real-time remote access, providing seamless connectivity across long distances for machines. This true plug-and-play system is perfect for small-scale deployments, ensuring hassle-free installation. It supports seamless 4G/5G switching and is equipped with dual SIM slots for failover, guaranteeing continuous connectivity even if one carrier network becomes unavailable. This ensures efficient and stable connectivity under any network coverage condition. Enhance local customer engagement through a reliable 5G network and VPN for security, for example, by delivering timely information, advertisements, and services. Optimize your operations and customer interactions effortlessly with our efficient technology solution.

Power Device via Ethernet

The DWM-314-GP features a two port Giga Ethernet interface and equipped with 802.3af/at PoE functionality that facilitates seamless connectivity to any Ethernet PD device, additionally it also equipped with PD equipment detection functionality. If a PD device fails to respond, the system will automatically power cycle, forcing a reboot of the PD device to ensure stable operation
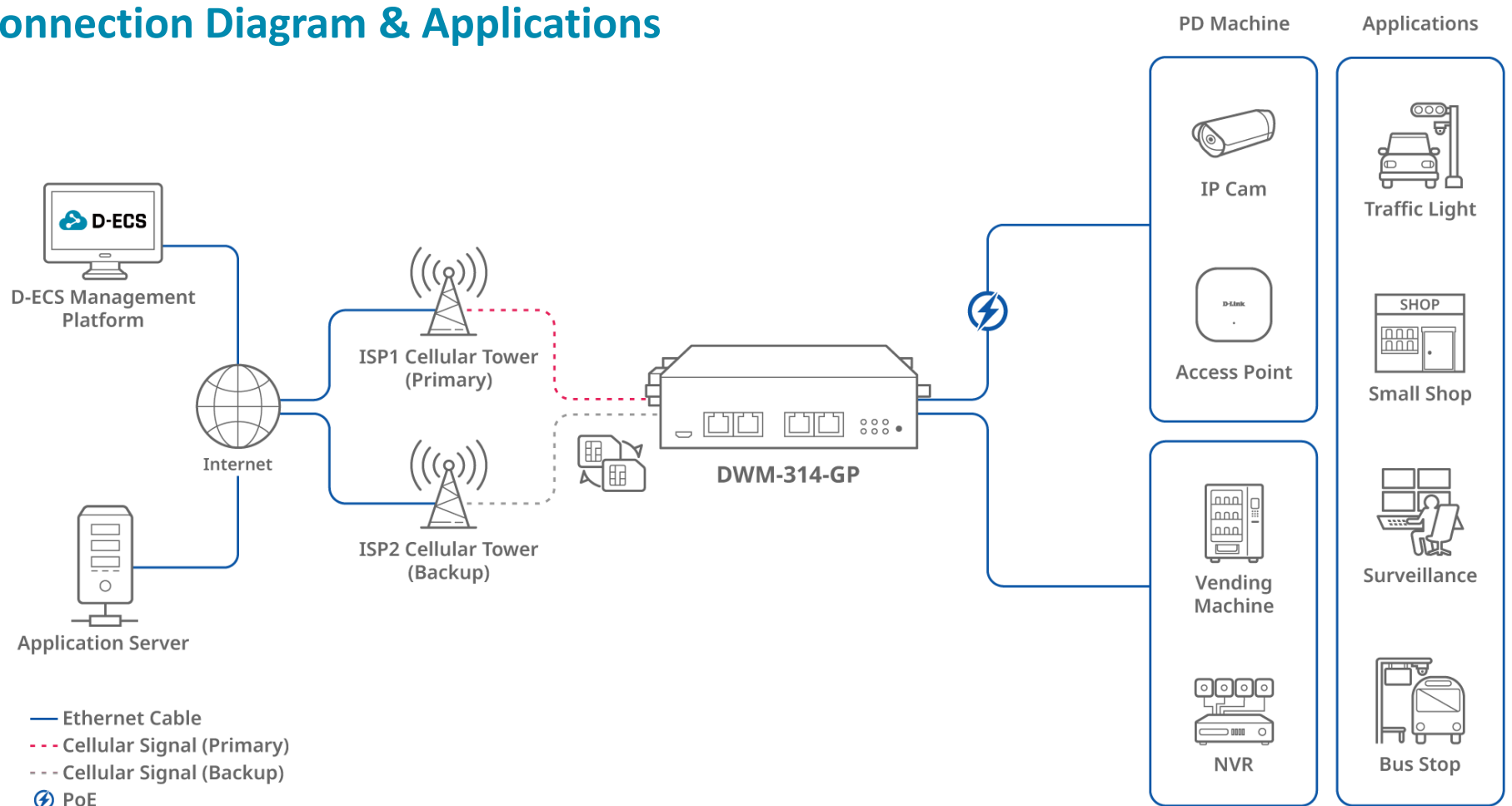
Suitable for Harsh Environment

The DWM-314-GP is designed to withstand harsh environments with its metal casing ensuring durability and operates within a broad temperature range from -30 to 70℃. It supports PoE with a wide input voltage range of DC 50-57V. Additionally, the model features built-in Network Address Translation (NAT) and bridge mode, simplifying network setup while enhancing security and interconnectivity.

Connection Diagram & Applications

PD Machine

Applications

IP Cam

Traffic Light

Access Point

Small Shop

D-ECS Management Platform

ISP1 Cellular Tower (Primary)

DWM-314-GP

Internet

ISP2 Cellular Tower (Backup)

Vending Machine

Surveillance

Application Server

NVR

Bus Stop

—— Ethernet Cable
- - - Cellular Signal (Primary)
- - - Cellular Signal (Backup)
⚡ PoE

Specifications

Device Interface
- Cellular Module: 5G NR/4G LTE 3GPP Rel. 16
- Cellular Standards: 5G NR(Sub-6GHz), 4G LTE(DL Cat.19/UL Cat.18)
- SIM Slot: 2* SIM (3FF Micro)
- Ethernet: 2*LAN GE, 2*LAN GE with PoE-PSE 802.3at
- Power Input: DC 50-57V (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
- Network Monitor: ICMP Checking

Network
- DHCP : DHCP Server
- Port Forward: Virtual Server
- DDNS: DynDNS, No-IP, Dynamic DO
- Routing: Static route, Routing information
- PoE: Power Control, ON/OFF by Network checking, Scheduled ON/OFF
- IPv4/v6

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

Security
- Firewall: IPS, Block WAN Ping
- Access Control: Packet Filter, MAC Control

Administration
- Configuration: Web UI, Command Script, SSH
- Management: D-Link D-ECS[2]
- System: FW Upgrade, Reboot & Reset, System Time, NTP Service, System Log
- Scheduling: reboot rule policy, working day
- SMS Service: SMS Inbox, SMS Event Management
- Cellular Data Capacity: Warning ratio to send SMS

Status
- Network Status: Connection information, Cellular Signal Quality
- Cellular Mobile: Cellular Modem Information/Status, Cellular Network Status, Cellular Signal Quality, Data Usage
- 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: 131 x 99 x 40 mm

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

Available Versions

SKU List[3]	
EU SKU (HW: A1):	**Global/US SKU (HW: A2):**

EU SKU (HW: A1):
- **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: A2):
- **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

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[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.

Front panel labels: 5G NR Antenna, 5G NR Antenna, System Port, LAN1, LAN2, LAN3, LAN4, PoE1, PoE2, Reset, LAN Port, PoE LAN Port, Status LEDs, Reset Button

Rear panel labels: Cell, GND, PWR, Cell, GND, Power Input, SIM Slot A/B, DIN Rail

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