D-Link

5G NR M2M Gateway

Industrial IoT 5G NR M2M gateway for Wi-Fi and RS-232/RS-485 with digital and analog I/O

DWM-3010

- Wireless 802.11ac/n/g/b/a
- 5G NR/ LTE (sub-6 GHz/LTE Cat.20)
- WPA/WPA2/WPA-PSK/WPA2-PSK/802.1x encryption
- Advanced VPN: IPSec/OpenVPN/L2TP/PPTP/GRE
- Remote management with D-ECS (D-Link Edge Cloud Solution)
- Connect up to 50 devices to your Wi-Fi network
- Rugged design for wide-temperature operation

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1 Gbps / 150 Mbps

High-Speed 5G NR Internet

5G NR speeds up to
1 Gbps for lightning-fast downloads, lower latency and reduced congestion

Dual-Band AC1200

866 Mbps (5 GHz) + 300 Mbps (2.4 GHz) dual-band connectivity

GIG

Gigabit Ethernet Ports

High-speed Gigabit connections for wired devices

Up to 50 Devices

Connect up to 50 Wi-Fi devices in device-dense working environments
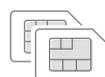
Dual SIM Slots

Dual SIM slots allows redundant connectivity to ensure uninterrupted operatoin

IPv6

Supports IPv6

Future-proof and compatible with the next generation of Internet standards

Hardware/Port

Device Interfaces	1 x 10/100/1000 Ethernet WAN/LAN Ports, 2 x 10/100/1000 Ethernet LAN port

LED	Serial: Blue
	   OFF: Serial function is disabled
	   Fast Flashing: Serial port is working
	Status: Blue
	   OFF: Host disconnected
	   Fast Flashing: WAN Ethernet or LTE connection established, obtaining IP
	PWR: Blue
	   OFF: Device is powered OFF or in standby mode
	   Steady ON: Device is powered ON
	   Flashing once per second: Device is at "Delay OFF" mode
	   Fast Flashing: Firmware is upgrading or device is in recovery mode
	Wi-Fi: Blue
	   OFF: 2.4 GHz/5 GHz Wi-Fi is disabled
	   Steady ON: 2.4 GHz/5 GHz Wi-Fi is enabled
	   Fast Flashing: Data is being transmitted/received via 2.4 GHz/5 GHz Wi-Fi
	5G1L Cellular & 5G1S Cellular: Blue
	   SIM-A Steady ON: SIM-A is inserted for 3G/4G/5G connection
	   SIM-A OFF: SIM-A is not inserted or not in use
	   SIM-B Steady ON: SIM-B is inserted for 3G/4G/5G connection
	   SIM-B OFF: SIM-B is not inserted or not in use
	   HIGH Steady ON: 3G/4G/5G signal strength is at high level
	   LOW Steady ON: 3G/4G/5G signal strength is at low level
	WAN/LAN1 - 3: Green
	   Steady ON: Ethernet LAN or WAN connection is established
	   Flash: data packets are transferring

Power Supply	DC 9V / 2.7A ~ 36V / 0.7A
Ethernet	1 x 10/100/1000 Ethernet WAN/LAN port 2 x 10/100/1000 Ethernet LAN ports
SMA Antenna	4 x Female type jack for 5G NR/LTE 2 x Male type jack for Wi-Fi
Communication Bus	1 x RS-232 (Tx/Rx) 1 x RS-485 (D+(B), D-(A))
Digital I/O	2 x DI (Isolated, "Logic 0": 0~2V, "Logic 1": 5V ~ 30V) 2 x DO (Isolated, Non-Relayed Output, 24V/300 mA for each port)
Analog I/O	2 x AI (0~10V, 12 bit ADC, sampling rate up to 125 KHz)

5G NR/4G LTE Modem

5G NR	5G NR, Sub-6 GHz, 100 MHz (BW)
4G LTE	LTE support up to Cat.20
Operating Bands	5G NR Refarmed Sub-6: n1, n2, n3, n5, n7, n8, n12, n20, n28, n41, n66, n71 New Sub-6: n77, n78, n79 LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 LTE TDD: B34, B38, B39, B40, B41, B42, B46, B48 WCDMA/HSPA+: B1, B2, B3/9, B4, B5/6/19, B8
Maximum Cellular Data Throughput	5G NR: 900 Mbps (DL, Ethernet) / 150 Mbps (UL, Ethernet)
Interface	USB 3.0 miniPCIe
Dual SIM Slots	3V/1.8V 6-pin standard (3FF Micro SIM)

Wi-Fi (802.11)

Standards	IEEE 802.11 ac/n/g/b/a, 2.4 GHz/5 GHz
Wi-Fi Data Rates	Up to 866 Mbps with 802.11ac clients Up to 300 Mbps with 802.11n clients

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Web UI

Web Management	English (default)
LAN Default IP Address	192.168.0.1
Default Subnet Mask	255.255.255.0

Wireless WAN

5G NR/4G LTE	5G NR/4G LTE modem to connect to Internet

WAN Control

WAN	Cellular & Config Ether-WAN; Failover
Cellular	3GPP, 5G NR/4G LTE, IPv4/v6
Ether-WAN	Dynamic IP, Static IP, PPPoP, PPTP, L2TP
Network Monitor	ICMP/DNS Query
Dual SIM slots for CELL	SIM A, SIM B failover

Wi-Fi

Standard	802.11 ac/n/g/b
Mode	AP router, WDS, WDS hybrid modes
Functions	Multi-SSID, WMM
Security	WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x
Captive Portal	External web portal
2.4 GHz SSID	DWM-3010-XXXX (XXXX is last four random digits based on MAC address)
5 GHz SSID	DWM-3010-5G-XXXX (XXXX is last four random digits based on MAC address)
Auto Channel Scan	Enabled
Pre-shared Key	Random 8-character key (alphanumeric case sensitive)

Protocol

LAN & VLAN	DHCP server/relay, port/tag based VLAN
IPv6	Dual stack, IPv4/IPv6
Port Forwarding	NAT 1-1, 1-many, transversal, DMZ, Virtual Server & Computer, VPN passthrough
Routing	Static, Dynamic - RIP1/RIP2, OSPF, BGP
QoS	Policy-based, 802.1q and TOS for priority queues

Service

Cellular Toolkit	Data usage, SMS, SIM PIN, USSD, Network Scan
Event Handling	User-defined mgmt/notify event; action & trigger by SMS, mail, syslog, SNMP trap, Modbus, I/O
D-ECS (D-Link Edge Cloud Solution)	Remote Management of Devices, Zero Touch Deployment, Device GPS Location

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Software Specifications

Security

VPN Tunneling	IPSec, OpenVPN, PPTP, L2TP, GRE
Scenario	Site/host to site/host; dynamic VPN
VPN Capability	IPSec up to 16 tunnels
Firewall	SPI firewall iwth stealth mode, IPS
Access Control	Packet filter, URL blocking, MAC filter

Field Com

Virtual COM	RFC2217, TCP client, TCP server, UDP
Modbus	Gateway for Modbus TCP/RTU/ASCII Master/Slave Access; Slave for Device Status/Information Access

Administration

Configuration	Web UI, CLI, Command Script, D-ECS (D-Link Edge Cloud Solution)
Management	SNMPv3 Std. & D-ECS (D-Link Edge Cloud Solution)
System	Upgrade, backup & restore, reboot & reset, Syslog
Diagnostics	Packet analyzer, diagnostic tools

Electrical Characteristics

Power

Power Input	DC 9V/2A - 36V/0.7A +/- 5%

Environmental Requirements

Temperature

Operating Temp./Humidity	Temperature: -30°C ~ 60°C, Humidity: 10%~95% non-condensing
Storage Temp.	Temperature: -40°C ~ 85°C, Humidity: 0%~95% non-condensing
RoHS	RoHS compliant

ID/Mechanical

Dimensions	62 x 125 x 160 mm (w/o mounting kit)
Weight	1.15 kg

Order Information

DWM-3010	5G NR M2M Gateway

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