



DOM-311-TSO

4G IIoT RTU



Key Features

Modbus
TCP/RTU/ASCII

IIoT
Telemetry

VPN
Security

IT/OT
Integration

Industrial
Grade Design

Management
Platform

D-Link's DOM-311-TSO 4G IIoT RTU provides LTE Cat 4 speeds up to 150 Mbps for downlink. It is equipped with one Fast Ethernet port and expanded IO capabilities including 1x RS232/485 port, 3x digital inputs, and 2x digital outputs, making it suitable for a wide range of IT/OT applications.

IT/OT Integration

The DOM-311-TSO 4G IIoT RTU is designed for versatile industrial automation and networking needs. It supports multiple interfaces, including Modbus TCP/RTU/ASCII, Ethernet, and RS232/485, allowing seamless integration with a wide range of devices, including legacy serial systems. This eliminates the need to replace existing infrastructure, reducing upgrade costs. With robust I/O capabilities, including digital inputs and outputs, the DOM-311-TSO ensures compatibility with various wired devices and operational environments. Its Fast Ethernet port and intuitive setup via a web interface or D-Link's D-ECS Remote management make it ideal for tailored deployments in industrial settings.

Data Telemetry

The DOM-311-TSO offers centralized control for seamless data collection from field devices using TCP, RTU, and ASCII protocols. It enables efficient monitoring and analytics by gathering data from serial connections. With multi-interface support, including RS232/485 and digital inputs/outputs (DI/DO), the device facilitates real-time data transfer or logging, ensuring comprehensive insights and enhanced operational efficiency.

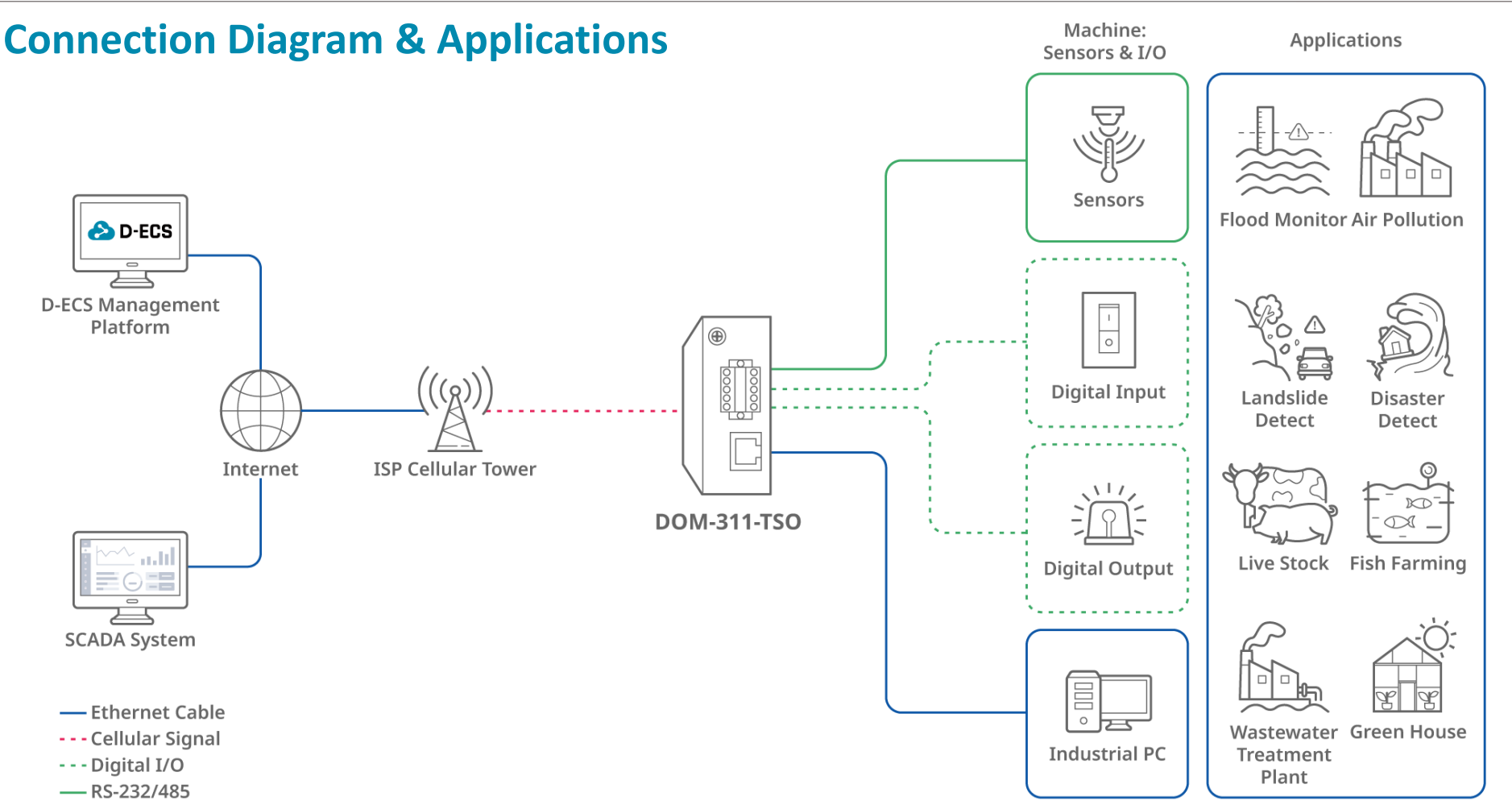
Applications

- Environmental Monitoring (Flood, Air Pollution, Landslide detect, Disaster Detect)
- Live Stock
- Fish Farming
- Wastewater Treatment Plant
- Green House

Durable Design for Harsh Environments

The DOM-311-TSO is built to perform in the toughest environments. Encased in metal casing ensuring durability and designed to operate with a wide voltage range of VDC 9-36V, it operates reliably across extreme temperature ranges, specifically from -30°C to 70°C, making it suitable for demanding M2M applications anywhere. Its durability ensures uninterrupted service, maintaining connectivity when it matters most.

Connection Diagram & Applications



Specification

Device Interface

- Cellular Module: 4G LTE-Cat.4
- SIM Slot: 1*SIM(Nano SIM)
- Ethernet: 1*LAN FE
- Serial Port: 1* (RS-232 or RS-485)(TB)
- Digital I/O:
 - 3* DI("Logic 0": 0~2V, "Logic 1": 5V~30V),
 - 2*DO(Open Collector, Max. 30V) (TB)
- Power Input: DC 9-36V (TB)
- Antenna Connector: 2*SMA(F)-Cellular

Performance¹

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

WAN

- Cellular: NAT, Bridge
- Network Monitor: ICMP Check

Network

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

VPN

- VPN Tunnel: OpenVPN
- VPN Usage: Client mode

Security

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

Administration

- Configuration: Web UI, CLI, Command Script
- Management: D-Link D-ECS²
- System: FW Upgrade, Reboot & Reset, System Time, NTP Service
- Scheduling: reboot rule policy, working day
- SMS Service: SMS Event Management

Available Versions

SKU List ³	
EU SKU (HW: A1): 4G LTE - LTE-FDD: B1/B3/B7/B8/B20/B28A - LTE-TDD: B38/B40/B41	US SKU (HW: A2): 4G LTE LTE: B2/B4/B5/B12/B13/B14/B66

Certifications & Approvals	
Certification - CE - UKCA	

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.

