



DOM-530-TSO

4G IIoT Gateway



Key Features

Modbus
TCP/RTU/ASCII

IIoT
Telemetry

Dual-SIM
Failover

VPN
Security

Industrial
Grade Design

GPS
Location

D-Link’s DOM-530-TSO 4G IIoT Gateway offers LTE Cat 4 speeds up to 150 Mbps for downlink and includes two Gigabit Ethernet ports, with one configurable as Ethernet WAN, facilitating smooth broadband and 4G transitions. It features dual SIM support for enhanced network reliability, alongside 2x RS232/485 ports, 1x digital input, and 1x digital output, enhancing IO capabilities. Integrated GPS function to provide device location. Additionally, the gateway supports data storage and system backup with a MicroSD card slot and USB connectivity, accommodating a broad spectrum of IT/OT applications.

IT/OT Integration

The DOM-530-TSO supports multiple interfaces, including Modbus TCP/RTU/ASCII, Ethernet, and RS-232/RS-485. This versatility allows for easy connections to a wide range of devices, including legacy serial devices. By eliminating the need to replace existing infrastructure, it significantly reduces overall upgrade costs. The DOM-530-TSO is ideal for various industrial automation applications, enabling seamless integration with current systems.

Data Logging and Event Handling

The DOM-530-TSO is equipped with a Micro SD card slot and a USB port, facilitating data logging and storage, such as packet analysis, to help users quickly troubleshoot issues. Additionally, the device features advanced event management capabilities that instantly notify users of changes in device status and support GPS location functionality. These real-time notification and positioning features significantly enhance its effectiveness in efficient monitoring and management scenarios.

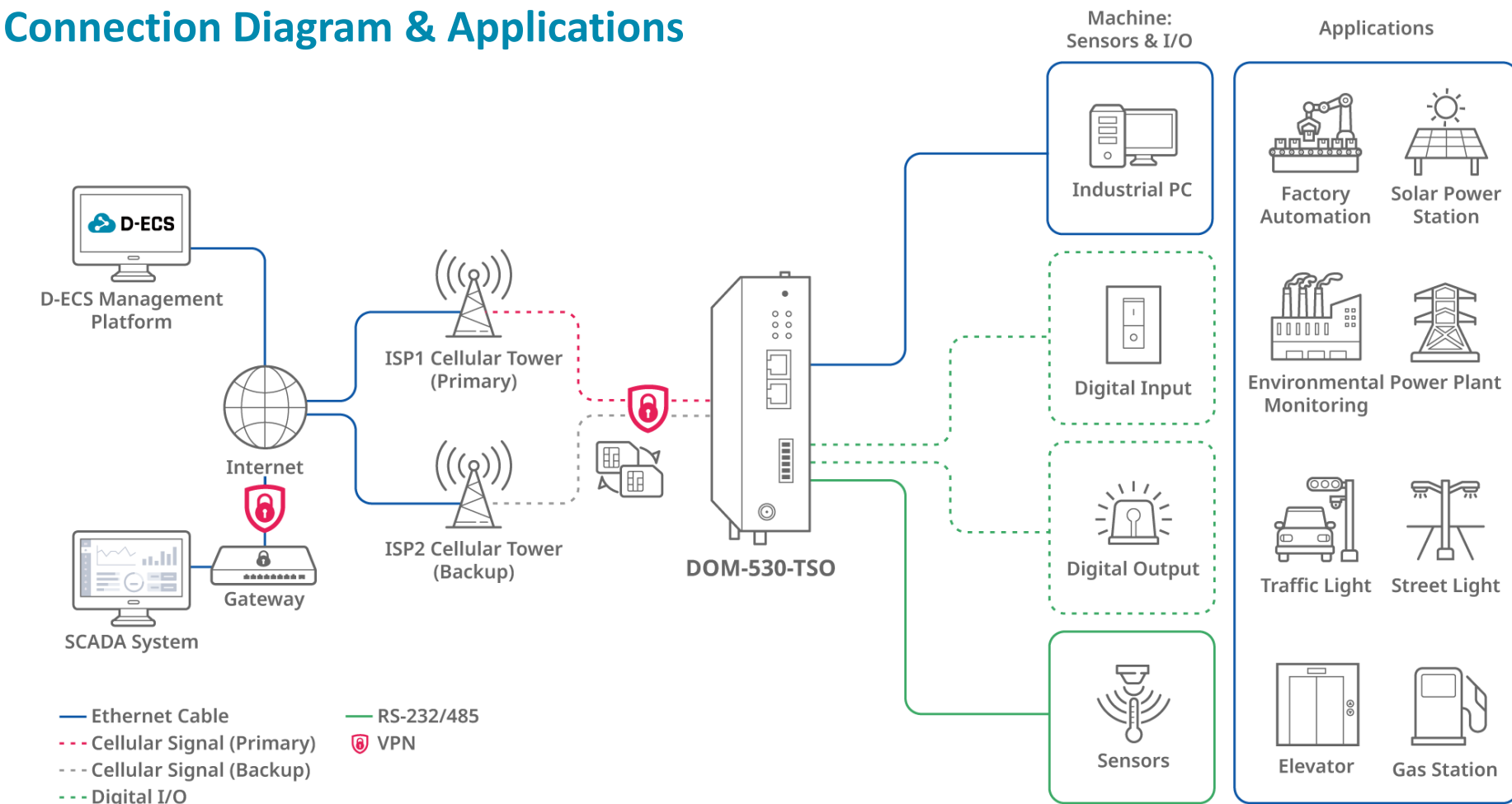
Applications

- Factory Automation
- Solar Power Station
- Environment Monitoring
- Power Plant
- Traffic Light
- Street Light
- Elevator
- Gas Station

Durable Design for Harsh Environments

Emphasizing the product's strength and versatility, it features a wide operating temperature range of -30°C to 70°C and supports a voltage range of 9-36 VDC, making it suitable for various harsh industrial environments. This design ensures long-term stable operation, performing excellently in factories, agriculture, and other environment settings.

Connection Diagram & Applications



Specification

Device Interface

- Cellular Module: 4G LTE-Cat.4
- SIM Slot: 2*SIM(Micro SIM)
- Ethernet: 1*WAN/LAN GE, 1*LAN GE
- Serial Port: 2* (RS-232 or RS-485)(TB)
- Digital I/O:
 - 1* DI(Isolated, “Logic 0”: 0~2V, “Logic 1”: 5V~30V),
 - 1*DO(Relay Mode, Max. 30V) (TB)
- Micro SD Slot: 1*Micro SD for log.
- USB Port: 1* USB 2.0 Type A port for log.
- GNSS: GPS/GLONASS
- Power Input: DC 9-36V (TB)
- Antenna Connector: 2*SMA(F)-Cellular, 1*SMA(F)-GPS

Performance¹

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

WAN

- Multi-WAN: Cellular, Ether-WAN, WAN Failover
- Cellular: NAT, Bridge
- Ether-WAN: Dynamic IP, Static IP, PPPoE, PPTP, L2TP
- Network Monitor: ICMP Check/DNS Query

Network

- LAN & VLAN: DHCP Server/Relay, Port/Tag based VLAN
- Port Forward: NAT Loopback, DMZ, Virtual Server & Computer, VPN Pass-through
- Routing: Static, Dynamic RIPv1/v2, OSPF, BGP
- DDNS: DynDNS, No-IP, Dynamic DO
- IGMP, IPv4/v6

External Server

- Ext. Server: Email, Syslog, FTP Server

Service

- Cellular Toolkit: Data usage, SMS, SIM PIN, Network Scan
- Event Handling: Event Management, Notifying Events
- Device Location: GPS or GPS+ GLONASS

VPN

- VPN Tunnel: IPSec, OpenVPN, PPTP,L2TP,GRE
- IPsec Scenario: Site/Host to Site/host; Dynamic VPN

Security

- Firewall: SPI Firewall with Stealth Mode, IPS, Block WAN Ping
- Access Control: Packet Filter, MAC Control

Administration

- Configuration: Web UI, CLI, Command Script
- Management: SNMPv1/2/3, D-Link D-ECS²
- System: FW Upgrade, Backup & Restore Config, Reboot & Reset, System Log, NTP Service
- FTP: FTP, SFTP
- Diagnostic: Diagnostic Tools, Packet Analyzer

Field Communication

- Virtual COM: TCP Client, TCP Server, UDP
- Modbus: Modbus TCP/RTU/ASCII Master/Slave Access;
- Data Logging: Modbus Proxy Rule, Scheme Configuration for Sniffer/Off-Line Proxy/Full-Time Proxy/Sniffer&Off-Line Proxy/Sniffer&Full-Time Proxy.

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: 31 x 99 x 131mm

Standard Package

- 2* Cellular SMA Antennas
- 1* RJ-45 Cable
- 1* Power Adapter
- 1* Terminal Block (2-pin)
- 1* Terminal Block (4-pin)
- 1* Terminal Block (6-pin)
- 1* DIN-Rail kit

Available Versions

SKU List³

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
- RCM

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.

