

## Highlights

### Investment Protection

2.5 Gigabit Ethernet doubles the bandwidth and leverages Cat 5e cabling, saving TCO of upgrading 802.11ac Wave 2 APs and 2.5 Gigabit PC/laptops

### 10 Gigabit Ethernet Connection

Two 10 Gigabit SFP+ high-bandwidth uplink ports secure full bandwidth connections to the aggregation layer in 2.5 Gigabit infrastructures

### Power over Ethernet

Eight PoE-capable ports delivering up to 30 W of power each and a total PoE budget of 240 W for easy deployment of access points and surveillance devices



## DMS-1100 Series

# 2.5 Gigabit Ethernet Smart Managed Switches

## Features

### Rich Layer 2 Features

- STP, RSTP, MSTP, ERPS
- 802.1Q/Port/Asymmetric VLAN
- Port mirroring
- IGMP/MLD Snooping
- LACP
- D-Link Safeguard Engine
- DoS attack prevention

### Intuitive Management

- D-Link Network Assistant (DNA) utility
- Web-based GUI
- Built-in SNMP MIB for remote NMS (D-View/DNA)

### Advanced Features

- Auto Surveillance VLAN
- Auto Voice VLAN
- Loopback detection
- Cable diagnostics
- LLDP/LLDP-MED

### Green Technology

- Power saving features:
  - LED shutoff
  - IEEE 802.3az Energy-Efficient Ethernet (EEE)

The D-Link DMS-1100 Series 2.5 Gigabit Ethernet Smart Managed Switches are a cost-effective 2.5 Gigabit switch series capable of servicing a range of network needs in any type of business. Featuring eight 2.5 Gigabit access ports and two 10 Gigabit SFP+ uplink ports, this series is ideal for deploying multiple high-performance 802.11ac Wave 2 access points using 2.5 Gigabit connections, while providing a 10 Gigabit wire-speed uplink for optimal bandwidth when accessing the larger local area network.

## Seamless Integration and Future Proof

The DMS-1100 Series supports IEEE 802.3bz and is fully backwards compatible with 802.3ab Gigabit Ethernet to deliver 2.5 Gigabit speed over conventional, widespread available Cat 5e cables over a distance of up to 100 meters.

Driven by the increasing popularity of 802.11ac Wave 2 access points and the emerging trend of 2.5 Gigabit LAN connections, 2.5 Gigabit technology will soon replace Gigabit as the standard for Ethernet connectivity. With backwards compatibility for older standards, the DMS-1100 Series can be flawlessly integrated into existing Gigabit Ethernet network infrastructures while simultaneously making your network future-proof for the next generation of 2.5 Gigabit connectivity.

## Complete Layer 2 and Troubleshooting Features

The DMS-1100 Series comes with a complete lineup of L2 features, including port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). The DMS-1100 Series also features loopback detection and cable diagnostics to help network administrators identify and solve network problems quickly and easily. Loopback detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable diagnostics helps network administrators quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.

## 2.5 Gigabit Ethernet Smart Managed Switches

### Versatile Management

The DMS-1100 Series comes with the D-Link Network Assistant (DNA) utility that simplifies the configuration of devices that support the D-Link Discovery Protocol. The D-Link Network Assistant utility easily allows customers to discover multiple D-Link Smart Managed Switches within the same L2 network segment and displays them on screen for instant access. With this utility, users do not need to change the IP address of their PC. This utility further allows for simultaneous configuration and basic setup of all discovered devices, including password changes and firmware upgrades. The DMS-1100 Series also supports D-View. D-View is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

### Power over Ethernet Support

The Power over Ethernet-ready DMS-1100-10TP features a total power budget of 240 W, capable of supplying up to 30 W of power per port to connected PoE-enabled devices. Power over Ethernet simplifies deployment of surveillance devices and access point infrastructures by reducing cable clutter, and eliminating the need for dedicated power supplies to allow PoE devices to be installed in remote locations.

### Technical Specifications

#### General

Model	• DMS-1100-10TS	• DMS-1100-10TP
Interfaces	• 8 x 100/1000/2.5GBASE-T ports • 2 x SFP+ ports	• 8 x 100/1000/2.5GBASE-T PoE ports • 2 x SFP+ ports
Port Standard & Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3u 100BASE-TX</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3z 1000BASE-X</li> <li>• IEEE 802.3bz 2.5GBASE-T</li> <li>• IEEE 802.3ae 10G over fiber               <ul style="list-style-type: none"> <li>• IEEE 802.3az</li> </ul> </li> <li>• IEEE 802.3af/at (DMS-1100-10TP)</li> </ul>	
Network Cables for 2.5GBASE-T	• Cat 5e (100 m max)	
Media Interface Exchange	• Auto MDI/MDIX adjustment for all twisted-pair ports	
<b>Performance</b>		
Switching Capacity	• 80 Gbps	
Maximum Packet Forwarding Rate	• 59.52 Mpps	
Transmission Method	• Store-and-forward	
MAC Address Table	• Up to 16,000 entries per device	
<b>Power over Ethernet (PoE)</b>		
PoE Standards	• N/A	• IEEE 802.3af/at
PoE Ports	• N/A	• Ports 1 to 8
PoE Budget	• N/A	• 240 W

Physical		
AC Input	• 100 to 240 VAC	
Maximum Power Consumption	• 33.7 W	• PoE on: 293.4 W • PoE off: 38.1 W
Standby Power Consumption	• 21.6 W	• 27.3 W
Operating Temperature	• -5 to 50 °C (23 to 122 °F)	
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)	
Operating Humidity	• 0% to 95% non-condensing	
Storage Humidity	• 0% to 95% non-condensing	
Dimensions (L x W x H)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)
Weight	• 2.53 kg (5.58 lbs)	• 3.43 kg (7.56 lbs)
MTBF	• 378,023 hours	• 676,329 hours
Diagnostic LEDs	<ul style="list-style-type: none"> <li>• Link/Activity/Speed (Per 2.5GBASE-T port)</li> <li>• Link/Activity/Speed (Per 10G SFP+ port)               <ul style="list-style-type: none"> <li>• POWER</li> <li>• FAN error</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Link/Activity/Speed (Per 2.5GBASE-T port)</li> <li>• Link/Activity/Speed (Per 10G SFP+ port)               <ul style="list-style-type: none"> <li>• POWER</li> <li>• FAN error</li> <li>• PoE status</li> </ul> </li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• CE</li> <li>• FCC</li> <li>• C-Tick</li> <li>• VCCI</li> <li>• BSMI</li> <li>• CCC</li> </ul>	
Safety	<ul style="list-style-type: none"> <li>• cUL</li> <li>• CB</li> <li>• CE</li> <li>• CCC</li> <li>• BSMI</li> </ul>	

## 2.5 Gigabit Ethernet Smart Managed Switches

Software		
L2 Features	<ul style="list-style-type: none"> <li>Flow control               <ul style="list-style-type: none"> <li>802.3x Flow control</li> <li>HOL Blocking Prevention</li> </ul> </li> <li>Jumbo frames up to 9216 Bytes</li> <li>IGMP Snooping               <ul style="list-style-type: none"> <li>IGMP v1/v2 Snooping</li> <li>IGMP v3 Awareness</li> <li>Supports 192 groups (shared with MLD Snooping)</li> <li>IGMP Snooping Querier</li> <li>IGMP Snooping Fast Leave</li> </ul> </li> <li>MLD Snooping               <ul style="list-style-type: none"> <li>MLD v1 Snooping</li> <li>MLD v2 Awareness</li> <li>Supports 192 groups (shared with IGMP Snooping)</li> <li>MLD Snooping Querier</li> <li>MLD Snooping Fast Leave</li> </ul> </li> <li>802.3ad Link Aggregation:               <ul style="list-style-type: none"> <li>Support 8 groups per device and 8 ports per group</li> </ul> </li> <li>Loopback Detection V4.07</li> <li>LLDP/LLDP-MED</li> </ul>	<ul style="list-style-type: none"> <li>Port Mirroring               <ul style="list-style-type: none"> <li>One-to-One</li> <li>Many-to-One</li> <li>Mirror based on Tx</li> <li>Mirror based on Rx</li> </ul> </li> <li>Statistics               <ul style="list-style-type: none"> <li>Tx Ok</li> <li>Tx Error</li> <li>Rx Ok</li> <li>Rx Error</li> </ul> </li> <li>Spanning Tree Protocol               <ul style="list-style-type: none"> <li>802.1D STP</li> <li>802.1s MSTP</li> <li>802.1w RSTP</li> </ul> </li> <li>Ethernet Ring Protection Switching               <ul style="list-style-type: none"> <li>G.8032 ERPS single ring</li> <li>16 max nodes per ring</li> </ul> </li> <li>PD Alive</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>802.1Q tagged VLAN</li> <li>Port-based VLAN</li> <li>Auto Surveillance VLAN 2.0</li> <li>Voice VLAN</li> </ul>	<ul style="list-style-type: none"> <li>Asymmetric VLAN</li> <li>VLAN Group               <ul style="list-style-type: none"> <li>Supports 4094 static VLAN groups</li> <li>Max. 4094 VIDs</li> </ul> </li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>802.1p Quality of Service               <ul style="list-style-type: none"> <li>8 queues per port</li> <li>Strict Priority Queue (SPQ)</li> <li>Weighted Round Robin (WRR)</li> <li>Port-based bandwidth control (rate limiting)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Port-based bandwidth control               <ul style="list-style-type: none"> <li>Ingress bandwidth control</li> <li>Egress bandwidth control</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>D-Link Safeguard</li> <li>Traffic segmentation</li> <li>Broadcast/Multicast/Unknown Unicast Storm Control</li> <li>DoS attack prevention</li> </ul>	<ul style="list-style-type: none"> <li>SSLv3/TLS 1.2</li> <li>IPv4 support</li> <li>IPv6 support</li> </ul>
Operations, Administration, and Management (OAM)	<ul style="list-style-type: none"> <li>Cable diagnostics</li> </ul>	<ul style="list-style-type: none"> <li>Factory reset</li> </ul>
Authentication, Authorization, and Accounting (AAA)	<ul style="list-style-type: none"> <li>Trusted Host</li> </ul>	
Management	<ul style="list-style-type: none"> <li>Web-based GUI (supports IPv4/IPv6)</li> <li>Smart Wizard</li> <li>Client-based D-Link Network Assistant (DNA)</li> <li>SNTP</li> <li>SNMP               <ul style="list-style-type: none"> <li>Supports v1/v2c/v3</li> </ul> </li> <li>SNMP trap</li> <li>System log</li> </ul>	<ul style="list-style-type: none"> <li>DHCP/BootP client</li> <li>TFTP client</li> <li>D-Link Discovery Protocol (DDP)</li> <li>Dual images</li> <li>Dual configurations</li> <li>Ping</li> </ul>
Green Technology	<ul style="list-style-type: none"> <li>Power saving features               <ul style="list-style-type: none"> <li>LED shutoff</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE)</li> </ul>

MIB/RFC Standards	<ul style="list-style-type: none"> <li>• RFC768 UDP</li> <li>• RFC791 IP</li> <li>• RFC792 ICMP</li> <li>• RFC793 TCP</li> <li>• RFC826 ARP</li> <li>• RFC1213 MIB II</li> </ul>	<ul style="list-style-type: none"> <li>• RFC1493 Bridage MIB</li> <li>• RFC1907 SNMPv2 MIB</li> <li>• RFC4363 IEEE 802.1p MIB</li> <li>• ZoneDefense MIB</li> <li>• Private MIB</li> </ul>
<b>Order Information</b>		
<i>Part Number</i>	<i>Description</i>	
DMS-1100-10TS	8-port 2.5GBASE-T and 2-port 10G SFP+	
DMS-1100-10TP	8-port 2.5GBASE-T PoE and 2-port 10G SFP+	
<b>Optional 10 Gigabit Ethernet SFP+ Direct Attach Cables</b>		
DEM-CB100S	10G SFP+ to SFP+ 1 m Direct Attach Cable	
DEM-CB300S	10G SFP+ to SFP+ 3 m Direct Attach Cable	
DEM-CB700S	10G SFP+ to SFP+ 7 m Direct Attach Cable	
<b>Optional Gigabit Ethernet SFP Transceivers</b>		
DGS-712	1000BASE-T Copper SFP Transceiver	
DEM-302S-LX	1000BASE-LX Single-Mode, 2 km	
DEM-310GT	1000BASE-LX Single-Mode, 10 km	
DEM-311GT	1000BASE-SX Multi-mode, 550 m	
DEM-312GT2	1000BASE-SX Multi-mode, 2 km	
DEM-314GT	1000BASE-LHX Single-mode, 50 km	
DEM-315GT	1000BASE-ZX Single-mode, 80 km	
DEM-302S-BXD	1000BASE-BX-D Single-Mode, 2 km (TX-1550/RX-1310 nm)	
DEM-302S-BXU	1000BASE-BX-U Single-Mode, 2 km (TX-1310/RX-1550 nm)	
DEM-330T	1000BASE-BX-D Single-Mode, 10 km (TX-1550/RX-1310 nm)	
DEM-330R	1000BASE-BX-U Single-Mode, 10 km (TX-1310/RX-1550 nm)	
DEM-331T	1000BASE-BX-D Single-Mode, 40 km (TX-1550/RX-1310 nm)	
DEM-331R	1000BASE-BX-U Single-Mode, 40 km (TX-1310/RX-1550 nm)	
<b>Optional 10 Gigabit Ethernet SFP+ Transceivers</b>		
DEM-431XT	10GBASE-SR Multi-Mode, OM1: 33 m/OM2: 82 m/OM3: 300 m (w/o DDM)	
DEM-431XT-DD	10GBASE-SR Multi-Mode, OM1: 33 m/OM2: 82 m/OM3: 300 m (with DDM)	
DEM-432XT	10GBASE-LR Single-Mode, 10 km (w/o DDM)	
DEM-432XT-DD	10GBASE-LR Single-Mode, 10 km (with DDM)	
DEM-433XT	10GBASE-ER Single-Mode, 40 km (w/o DDM)	
DEM-433XT-DD	10GBASE-ER Single-Mode, 40 km (with DDM)	
DEM-434XT	10GBASE-ZR Single-Mode, 80 km (w/o DDM)	
DEM-436XT-BXD	10GBASE-LR Single-Mode, 20 km (TX-1330/RX-1270 nm) (w/o DDM)	
DEM-436XT-BXU	10GBASE-LR Single Mode, 20 km (TX-1270/RX-1310 nm) (w/o DDM)	
<b>Optional Management Software</b>		

## DMS-1100 Series 2.5 Gigabit Ethernet Smart Managed Switches

DV-700-N25-LIC	D-View 7 - 25 Node License
DV-700-N50-LIC	D-View 7 - 50 Node License
DV-700-N100-LIC	D-View 7 - 100 Node License
DV-700-N250-LIC	D-View 7 - 250 Node License
DV-700-N500-LIC	D-View 7 - 500 Node License
DV-700-N1000-LIC	D-View 7 - 1000 Node License
DV-700-P5-LIC	D-View 7 - 5 Probe License
DV-700-P10-LIC	D-View 7 - 10 Probe License
DV-700-P25-LIC	D-View 7 - 25 Probe License
DV-700-P50-LIC	D-View 7 - 50 Probe License
DV-700-P100-LIC	D-View 7 - 100 Probe License

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