D-Link®

Product Highlights

Investment Protection

2.5 Gigabit Ethernet doubles bandwidth and leverages existing Cat 5e cabling, saving TCO when upgrading 802.11ac Wave 2 APs and 2.5 Gigabit workstations

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, with a total PoE budget of 240 W for easy deployment of APs 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[1]
- Auto Voice VLAN
- Loopback detection
- Cable diagnostics
- LLDP/LLDP-MED

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

Overview

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, these switches are ideal for deploying high-performance 802.11ac Wave 2 access points using 2.5 Gigabit connections, while providing 10 Gigabit wire-speed uplinks for optimal bandwidth when accessing the larger local area network.

Seamless Integration and Future Proof

The DMS-1100 switches support IEEE 802.3bz and are fully backwards compatible with 802.3ab Gigabit Ethernet to deliver 2.5 Gigabit speed over commonly deployed Cat 5e cables over distances 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 ultimately 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 networks future-proof for the next generation of 2.5 Gigabit connectivity.

Complete Layer 2 Features

The DMS-1100 switches come with a complete lineup of L2 features, including port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). The switches also feature 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.

Versatile Management

The DMS-1100 switches support a variety of management options. An intuitive, web-based Graphical User Interface (GUI) enables administrators to easily set up and remotely manage their networks, greatly reducing switch deployment time.

These switches also come with the D-Link Network Assistant (DNA) utility that simplifies the configuration of devices supporting the D-Link Discovery Protocol. This utility allows network administrators 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. It further allows for simultaneous configuration and basic setup of all discovered devices, including password changes and firmware upgrades.
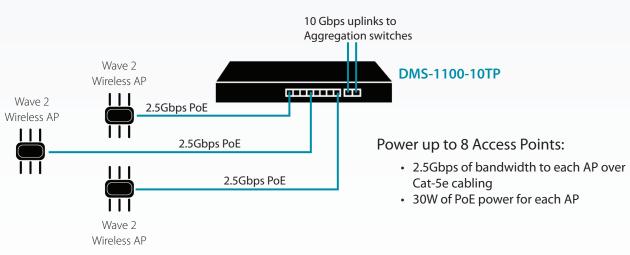
The DMS-1100 Series also supports D-View. D-View is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

Power over Ethernet Support

The DMS-1100-10TP supports industry standard IEEE 802.3at power over Ethernet across all eight copper ports. It 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.
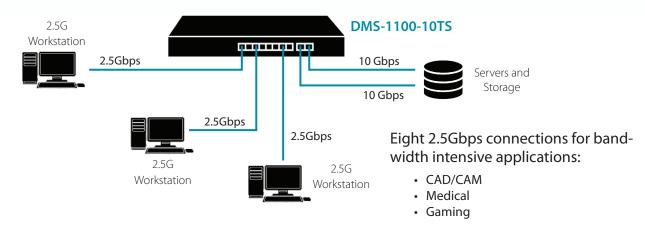
Lifetime Warranty and NBD Replacement

D-Link offers a Lifetime Warranty and Next Business Day (NBD) hardware replacement on the DMS-1100 Series 2.5 Gigabit Ethernet Smart Managed switches to further its commitment to product quality and long-term customer confidence.[2]

Edge Switching for Access Points

10 Gbps uplinks to Aggregation switches

Wave 2 Wireless AP

Wave 2 Wireless AP

Wave 2 Wireless AP

Wave 2 Wireless AP

2.5Gbps PoE

2.5Gbps PoE

2.5Gbps PoE

DMS-1100-10TP

Power up to 8 Access Points:
- 2.5Gbps of bandwidth to each AP over Cat-5e cabling
- 30W of PoE power for each AP

2.5G to the Desktop

2.5G Workstation

2.5G Workstation

2.5G Workstation

2.5G Workstation

2.5Gbps

2.5Gbps

2.5Gbps

DMS-1100-10TS

10 Gbps

10 Gbps

Servers and Storage

Eight 2.5Gbps connections for bandwidth intensive applications:
- CAD/CAM
- Medical
- Gaming

Technical Specifications

General	DMS-1100-10TS	DMS-1100-10TP
Hardware version	A	A

Number of Ports:
   100 / 1000 / 2.5GBASE-T (RJ45)
   10GbE (SFP+)
	8
	2
		8
		2

Port Standards & Functions	IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X IEEE 802.3bz 2.5GBASE-T IEEE 802.3ae 10G over fiber IEEE 802.3az	IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X IEEE 802.3bz 2.5GBASE-T IEEE 802.3ae 10G over fiber IEEE 802.3az IEEE 802.3af/at
Network Cables for 2.5GBASE-T	Cat 5e (100m max)	Cat 5e (100m max)
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair ports	Auto MDI/MDIX adjustment for all twisted-pair ports
Performance		
Switching Capacity	80 Gbps	80 Gbps
Maximum Packet Forwarding Rate	59.52 Mpps	59.52 Mpps
Transmission Method	Store-and-forward	Store-and-forward
MAC Address Table	Up to 16,000 entries per device	Up to 16,000 entries per device
Power over Ethernet (PoE)		
PoE Standards	N/A	IEEE 802.3af/at
PoE Ports	N/A	Ports 1 to 8
PoE Budget	N/A	240 W
Physical & Environmental		
AC Input	100 to 240 VAC	100 to 240 VAC
Maximum Power Consumption	33.7 W	293.4 W (PoE on); 38.1 W (PoE off)
Standby Power Consumption	21.6 W	27.3 W
Operating Temperature	23˚F to 122˚F (-5˚C to 50˚C)	23˚F to 122˚F (-5˚C to 50˚C)
Storage Temperature	-40˚F to 158˚F (-40˚C to 70˚C)	-40˚F to 158˚F (-40˚C to 70˚C)
Operating Humidity	0% to 95% non-condensing	0% to 95% non-condensing
Storage Humidity	0% to 95% non-condensing	0% to 95% non-condensing
Dimensions	17.32 x 8.27 x 1.73 in. (440 x 210 x 44 mm) 19” standard rack mounting width; 1U	17.32 x 9.84 x 1.73 in. (440 x 250 x 44 mm) 19” standard rack mounting width; 1U
Weight	5.58 lbs (2.53 kg)	7.56 lbs (3.43 kg)
Ventilation	1 Smart fan	1 Smart fan
MTBF	378,023 hours	676,329 hours
Diagnostic LEDs	Link/Activity/Speed (Per 2.5GBASE-T port) Link/Activity/Speed (Per 10G SFP+ port) POWER FAN error	Link/Activity/Speed (Per 2.5GBASE-T port) Link/Activity/Speed (Per 10G SFP+ port) POWER FAN error PoE status
Certifications	CE, FCC, C-Tick, VCCI, BSMI, CCC	CE, FCC, C-Tick, VCCI, BSMI, CCC
Safety	cUL, CB, CE, CCC, BSMI	cUL, CB, CE, CCC, BSMI

1	Main Ports (RJ45)	Triple speed - each port supports 2.5Gbps, 1000Mbps and 100 Mbps
2	Uplink Ports (SFP+)	Dual speed - each port supports 10Gbps and 1000Mbps optical transceivers

Software Features

L2 Features	• Flow control
	    • 802.3x Flow control
	    • HOL Blocking Prevention
	• Jumbo frames up to 9216 Bytes
	• IGMP Snooping
	    • IGMP v1/v2 Snooping
	    • IGMP v3 Awareness
	    • Supports 192 groups (shared with MLD Snooping)
	    • IGMP Snooping Querier
	    • IGMP Snooping Fast Leave
	• MLD Snooping
	    • MLD v1 Snooping
	    • MLD v2 Awareness
	    • Supports 192 groups (shared with IGMP Snooping)
	    • MLD Snooping Querier
	    • MLD Snooping Fast Leave
	• 802.3ad Link Aggregation:
	    • Support 8 groups per device and 8 ports per group
	• Loopback Detection v4.07
	• LLDP/LLDP-MED
		• Port Mirroring
		    • One-to-One
		    • Many-to-One
		    • Mirror based on Tx
		    • Mirror based on Rx
		• Statistics
		    • Tx Ok
		    • Tx Error
		    • Rx Ok
		    • Rx Error
		• Spanning Tree Protocol
		    • 802.1D STP
		    • 802.1s MSTP
		    • 802.1w RSTP
		• Ethernet Ring Protection Switching
		    • G.8032 ERPS single ring
		    • 16 max nodes per ring

VLAN	• 802.1Q tagged VLAN
	• Port-based VLAN
	• Auto Surveillance VLAN 2.0[1]
	• Voice VLAN
		• Asymmetric VLAN
		• VLAN Group
		    • Supports 4094 static VLAN groups
		    • Max. 4094 VIDs

Quality of Service (QoS)	• 802.1p Quality of Service
	    • 8 queues per port
	    • Strict Priority Queue (SPQ)
	    • Weighted Round Robin (WRR)
	    • Port-based bandwidth control (rate limiting)
		• Port-based bandwidth control
		    • Ingress bandwidth control
		    • Egress bandwidth control

Security	• D-Link Safeguard
	• Traffic segmentation
	• Broadcast/Multicast/Unknown Unicast Storm Control
	• DoS attack prevention
		• SSLv3/TLS 1.2
		    • IPv4 support
		    • IPv6 support

Operations, Administration and Management (OAM)	• Cable Diagnostics	• Factory Reset
Authentication, Authorization, and Accounting (AAA)	• Trusted Host	

Management	• Web-based GUI (supports IPv4/IPv6) • Smart Wizard • Client-based D-Link Network Assistant (DNA) • SNTP • SNMP • Supports v1/v2c/v3 • SNMP trap • System log	• DHCP/BootP client • TFTP client • D-Link Discovery Protocol (DDP) • Dual images • Dual configurations • Ping
Green Technology	• Power saving features • LED shutoff	• Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE)
MIB/RFC Standards	• RFC768 UDP • RFC791 IP • RFC792 ICMP • RFC793 TCP • RFC826 ARP • RFC1213 MIB II	• RFC1493 Bridage MIB • RFC1907 SNMPv2 MIB • RFC4363 IEEE 802.1p MIB • ZoneDefense MIB • Private MIB

Ordering Information

Model number	Description	Warranty
DMS-1100-10TS	8-port 2.5GBASE-T and 2-port 10G SFP+ Smart Managed Switch	Lifetime [2]
DMS-1100-10TP	8-port 2.5GBASE-T PoE and 2-port 10G SFP+ Smart Managed PoE Switch, 240W PoE Budget	Lifetime [2]

Optional 10GbE SFP+ Transceivers

DEM-431XT	10GBASE-SR Multimode SFP+ Optical Transceiver, 0 to 70C	
DEM-432XT	10GBASE-LR Single-mode SFP+ Optical Transceiver, 0 to 70C	

Optional Gigabit SFP Transceivers

DEM-310GT	1000BASE-LX Single-mode SFP Optical Transceiver, 0 to 70C	
DEM-311GT	1000BASE-SX Multimode SFP Optical Transceiver, 0 to 70C	
DGS-712	1000BASE-T to SFP Transceiver	

Optional 10GbE SFP+ Direct Attach Copper Cables

DEM-CB100S	10GbE SFP+ 1m Direct Attach Cable	
DEM-CB300S	10GbE SFP+ 3m Direct Attach Cable	

[1] This feature will be supported in a future firmware release.

[2] Lifetime Warranty available in U.S.A. only. Lifetime Warranty void when not purchased from Authorized US D-Link Reseller. Please visit us.dlink.com for list of Authorized US Resellers.

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FOR MORE INFORMATION

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