Product Highlights

Optimised for Video Surveillance

World's first PoE switch with ONVIF support and dedicated surveillance optimised web interface, as well as Auto Surveillance VLAN function

PoE+ Support with High Power Budget

Ideal for multi-featured and outdoor network cameras as well as 802.11ac wireless access points

PD Alive Check

Continuously monitors connected PoE-enabled devices and automatically reboots them if they become unresponsive

DGS-1100 MP Series

Gigabit Smart Managed Surveillance PoE+ Switches

Features

Physical

- High PoE budgets, up to 370W
- PD Alive Check
- Fibre uplink ports for connection to NVRs, network storage or servers

Surveillance Network

- Easy deployment with automatic configuration
- Surveillance traffic optimisation
- Auto-detect ONVIF devices
- Intuitive interface for monitoring and management
- Descriptive health diagnostics

Advanced Features

- IGMP Snooping
- Bandwidth control
- IEEE 802.1Q VLAN traffic segregation
- Port-based VLANs
- IEEE 802.1p
- Surveillance VLAN
- Voice VLAN
- G.8032 ERPS

Management Features

- Client-based utility or web-based GUI
- Built-in SNMP MIB
- Status Dashboard

The DGS-1100 MP Series Gigabit Smart Managed Surveillance PoE+ Switches is the world's first PoE switch with ONVIF support specifically designed for Video IP Surveillance applications. This allows it to recognise ONVIF devices and integrate seamlessly with your surveillance network. With the surveillance optimised web interface, you can access real-time information on your surveillance network such as surveillance topology and device status, as well as PoE power and network bandwidth utilisation. Auto Surveillance VLAN (ASV) function ensures the quality of real-time video for monitoring and control without compromising the transmission of conventional network data.

The DGS-1100 MP Series switches offer high PoE power budget suitable for powering multiple network cameras. The 10-port DGS-1100-10MP supports up to 30W on eight ports with a power budget of 130W, whereas the DGS-1100-26MP provides 24 PoE-enabled ports, a power budget of 370W, and all PoE-enabled ports support up to 30W. This along with PD Alive Check function, which continuously monitors connected PoE-enabled devices and automatically reboots them if they become unresponsive, make the DGS-1100 MP Series a critical part of your surveillance infrastructure.

Optimised for Video Surveillance

A redesigned Surveillance interface makes surveillance features more accessible than ever. The choice between Standard and Surveillance modes can be made during switch set up, allowing the user to choose the interface that best suits their requirements. A network overview shows which devices are connected to which ports, and ONVIF device support allows the switch to recognise both D-Link and 3rd party IP cameras and Network Video Recorders (NVRs). With monitoring, management and troubleshooting tools built into a single interface, the DGS-1100 MP Series provides everything you need to manage your surveillance network.

DGS-1100 MP Series
Gigabit Smart Managed Surveillance PoE+ Switches

Auto Voice VLAN and Bandwidth Control

The DGS-1100 MP Series supports Auto Voice VLAN, which is best suited for VoIP deployments. This enhances the VoIP service by automatically placing voice traffic from an IP phone to an assigned VLAN. With higher priority and individual VLAN, these features guarantee the quality and security of VoIP traffic. Bandwidth Control can reserve bandwidth on a per port basis for important functions that require larger bandwidth or have high priority.

Advanced Features

DGS-1100 MP Series is equipped with advanced security features such as Static MAC, Storm Control, and IGMP Snooping. Static MAC allows users to create a MAC whitelist for specific ports, helping administrators limit network access to authorised devices only. Storm Control monitors broadcast, multicast, or unknown unicast traffic and will start blocking or discarding packets which could flood the network when the defined threshold is exceeded. IGMP Snooping is able to reduce the loading of L3 multicast routers and save bandwidth in network throughput.

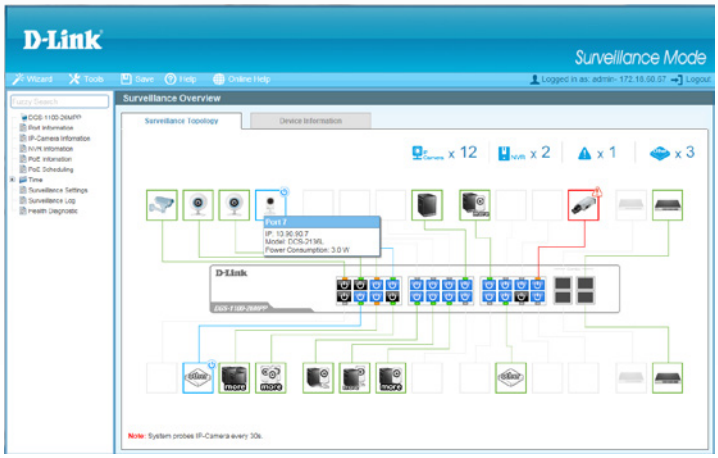
Easy Troubleshooting

The DGS-1100 MP Series features Loopback Detection and Cable Diagnostics to help network administrators find and solve network problems quickly and easily. Loopback Detection is used to detect loops created by a specific port and automatically shut down the affected port. The Cable Diagnostics feature is designed for network administrators to quickly examine the quality of the copper cables, recognise the cable type, and detect cable errors.

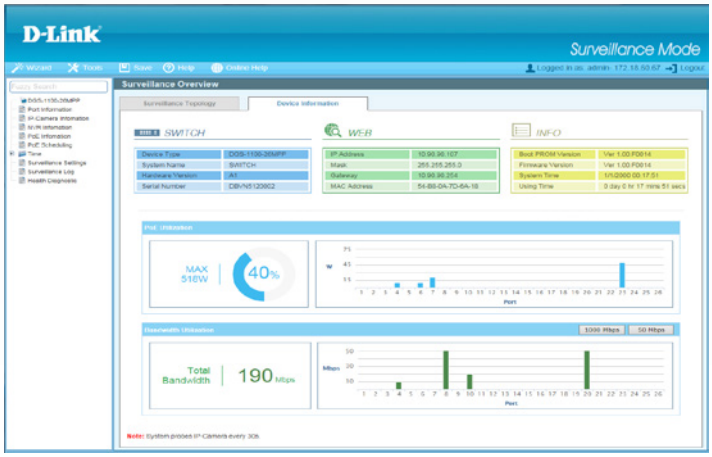
Easy to deploy

The DGS-1100 MP Series supports an intuitive D-Link Network Assistant Utility and a web-based management interface. The D-Link Network Assistant Utility allows customers to discover all switches in the D-Link Smart Managed Switch family within the same L2 network segment. With this utility, users do not need to change the IP address of their PC, which also makes the initial setup of the Smart Managed Switches quick and easy. Switches within the same L2 network segment that are connected to the user's PC are displayed on-screen for instant access. This allows for extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades. The graphic web-based management interface provides a user-friendly interface that enables network administrators to remotely control their network down to the port level.

Surveillance Topology Web Interface Screenshot



Device Information Web Interface Screenshot



D-Link®

DGS-1100 MP Series
Gigabit Smart Managed Surveillance PoE+ Switches

Technical Specifications

General	DGS-1100-10MP	DGS-1100-26MP
Hardware Version	• C1	
Size	• 11-inch Desktop/Rackmount Size, 1U Height	• 19-inch Rackmount Size, 1U Height
Number of Ports	• 8 10/100/1000 Mbps PoE • 2 SFP 1000 Mbps	• 24 10/100/1000 Mbps PoE • 2 Combo 1000 Mbps
Port Functions	• IEEE 802.3 compliant • IEEE 802.3u compliant • IEEE 802.3ab compliant • IEEE 802.3af/802.3at compliant • IEEE 802.3x Flow Control supports full-duplex mode	• Supports manual/auto MDI/MDIX configuration • Auto-negotiation • Supports half/full-duplex operation • IEEE 802.3az compliant • PoE PD Alive Check[1]
Performance		
Switching Capacity	• 20 Gbps	• 52 Gbps
Maximum Forwarding Rate	• 14.88 Mpps	• 38.69 Mpps
MAC Address Table Size	• 16K Entries	
Packet Buffer	• 4.1 Mbits	
Flash Memory	• 32 MBytes	
PoE		
PoE Standard	• IEEE 802.3af/802.3at	• IEEE 802.3af/802.3at
PoE Capable Ports	• Ports 1 to 8 (30 W max. per PoE port)	• Ports 1 to 24 (30 W max. per PoE port)
PoE Power Budget	• 130 W	• 370 W
Power Consumption		
Standby Mode	• 10.4 W	• 15.12 W
Maximum Power Consumption	• 132.6 W (PoE on) • 10.45 W (PoE off)	• 375 W (PoE on) • 16.21 W (PoE off)
Physical		
Power Input	• 100 to 240 V AC • 50 to 60 Hz Internal Power Supply	
MTBF	• 386,307 hours	• 299,588 hours
Acoustics	• 45.4 dB(A)	• 56 dB(A)
Heat Dissipation	• 570.51 BTU/hr	• 1470.46 BTU/hr
Weight	• 1.67 kg (4.03 lbs)	• 3.81 kg (8.40 lbs)
Dimensions	• 294 x 180 x 44 mm	• 440 x 285 x 43 mm
Ventilation	• 1 x Fan	• 2 x Fans
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	
EMI	FCC/IC, CE, VCCI, BSMI, CCC	
Safety	cUL, UL, LVD, CB, CCC, BSMI	

DGS-1100 MP Series
Gigabit Smart Managed Surveillance PoE+ Switches

Software Features		

VLAN	• Port-based VLAN
	• 802.1Q Tagged VLAN
	• Auto Surveillance VLAN
	• Voice VLAN
	• Management VLAN
		• Asymmetric VLAN
		• VLAN Group
		  • Supports 128 static VLAN groups
		  • Max. 4094 VIDs

L2 Features	• Flow Control
	  • 802.3x Flow Control
	  • HOL Blocking Prevention
	• Jumbo Frames up to 9216 Bytes
	• IGMP Snooping
	  • IGMP v1/v2/v3 awareness Snooping
	  • Supports 64 Groups
	  • IGMP Snooping Querier
	• 802.3ad Link Aggregation:
	  • DGS-1100-10MP: Support 5 groups per device and 8 ports per group
	  • DGS-1100-26MP: Support 13 groups per device and 8 ports per group
	• Ethernet Ring Protection Switching
	  • G.8032 ERPS
	• Loopback Detection
		• Cable Diagnostics
		• LLDP
		• Port Mirroring
		  • One-to-One
		  • Many-to-One
		• Statistics
		  • Tx Ok
		  • Tx Error
		  • Rx Ok
		  • Rx Error
		• Spanning Tree Protocol
		  • 802.1D STP
		  • 802.1w RSTP
		• L2 Multicast
		  • MLD Snooping

Quality of Service (QoS)	• 802.1p Quality of Service
	• 4 queues per port
	• Queue Handling
	  • Strict
	  • Weighted Round Robin (WRR)
		• Port-based Bandwidth Control (Rate Limiting)
		  • Ingress : 8Kbps, Egress : 64Kbps

Security	• D-Link Safeguard • Traffic Segmentation • Broadcast/Multicast/Unknown Unicast Storm Control	• DoS Attack Prevention • SSL
Management	• Web-based GUI (Supports IPv4/IPv6)	• Client-based Utility (D-Link Network Assistant Utility)
Green Technology	• Power Saving by • Link Status, LED Shut-Off, Port Shut-Off, System Hibernation	• Compliant with IEEE 802.3az Energy Efficient Ethernet
MIB/RFC Standards	• RFC768 UDP • RFC791 IP • RFC792 ICMP • RFC793 TCP • RFC826 ARP • RFC1213 MIB II • RFC1493 Bridage MIB • RFC1907 SNMPv2 MIB • RFC1215 MIB Traps Convention	• RFC2233 Interface Group MIB • RFC2665 Ether-like MIB • RFC4363 IEEE 802.1p MIB • ZoneDefense MIB • Private MIB • RFC951 BootP client • RFC1542 BootP/DHCP client • RFC2236 IGMP Snooping

Optional SFP Transceivers	
DEM-310GT	1000BASE-LX, single-mode, 10 km
DEM-311GT	1000BASE-SX, multi-mode, 550 m
DEM-312GT2	1000BASE-SX, multi-mode, 2 km

For more information: www.dlink.com

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