

Product Highlights

Flexibility and Reliability

Ethernet and SFP ports make it ideal for a wide range of applications and environments

Security and Authentication Features

Robust security features, including the protect against malicious attacks, while authentication tools allow access control

Optimal Network Performance

Control traffic and bandwidth down to each individual port while multicast support streamlines simultaneous distribution to multiple ports



DGS-F1210-10P/ME Series

Metro Ethernet Switches

Features

L2 Features

- 802.1D (STP), 802.1W (RSTP), and 802.1S (MSTP)
- Loopback detection
- Supports 802.3ad Link Aggregation
- Port-based Q-in-Q
- VLAN Trunking
- Jumbo frame 9K

Security/Authentication

- Port security
- SSH/SSL
- IP-MAC-Port Binding (IMPB)
- Access Control List (ACL)
- 802.1X
- Guest VLAN

Management

- SNMP v1/v2c/v3
- RMON v1/v2
- Link Layer Discovery Protocol (LLDP)
- HTTP, HTTPS Web Management Support
- NTP/ SNTP Support
- Support dual Image

D-Link DGS-F1210-10P/ME is a new-generation managed Metro Ethernet access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware, it supports functions such as ACL, and QoS.

Gigabit Performance

The DGS-F1210-10P/ME is a 10/100/1000 Mbps copper ports offer Power-over-Ethernet (PoE) so network devices such as PoE IP cameras can be installed in remote locations without immediate access to power outlets. Simply use an Ethernet cable to connect to these devices at the deployment location and it can act as a conduit not only for data, but for power as well.

Efficient & Resilient

For mission critical environments, DGS-F1210-10P/ME supports the Ethernet-ring protection protocol¹ with a protection shift time of less than 50ms. This switch also support 802.1D 2004 edition, 802.1W, and 802.1S Spanning Tree Protocols (STP). STP allows the switch to be configured with a redundant backup path, so transmission and reception of packets can be guaranteed in Link Failure situations. The switches also support 802.3ad link aggregation, which enables multiple ports to be grouped to form a single port, increasing bandwidth and redundancy for higher availability. These models feature 802.1p Quality of Service (QoS), allowing for real-time traffic classification into Weighted Round Robin (WRR) and strict priority levels mapped to 8 queues. Packet classification is based on TOS, DSCP, IPv4 (TCP/ IP), VLAN ID, TCP/UDP port number, protocol type, or user-defined packet content for flexible configuration for specific multimedia applications such as VoIP or IPTV.

Rich QoS Policies

DGS-F1210-10P/ME supports complex traffic classification based on VLAN IDs, source MAC/IP addresses, destination MAC/IP addresses, IP protocols, or priorities. It also supports priority remark. These functions provide an effective way for users to optimize their businesses. Provides flexible bandwidth control policies, supporting port-/flow-based flow limit, and ensuring the line speed forwarding of each port to make sure the high quality of video, audio and data services. The switch also supports multiple queue algorithms such as SP, WRR or SP+WRR.

Security & Authentication

DGS-F1210-10P/ME Metro Ethernet Switch support 802.1X port-based/host-based access control, guest VLAN, and RADIUS/TACACS+ authentication for strict access control over the network. The IP-MAC-Port Binding feature allows administrators to bind a source IP address with an associated MAC and also to define the port number to enhance user access control. It provides multiple security measures to defend against attacks from SYN Flood, UDP Flood, broadcast storm and mass flow of DOS or TCP.

Management Capabilities

A web-based GUI provides a user-friendly interface and easy management, and DHCP auto-configuration gives administrators enhanced management features, allowing them to save configuration presets to a TFTP server.

Support for Link Layer Discovery Protocol (LLDP) allows a network device to advertise its identity and capabilities on the local network, which helps businesses better manage their network topology. Also, each port on these switches supports a cable diagnostic feature that helps detect cable related problems such as length or cable functionality issues, so the administrator can quickly identify and fix this problem. It supports multiple management styles such as Console, Telnet and SSH. DNS client support.

Traffic & Bandwidth Control

Integrated bandwidth control allows network administrators to define the throughput levels for each port to manage bandwidth. It provides minimum granularity of 64 Kbps, ingress control for port based bandwidth control. The DGS-F1210-10P/ME switch also supports traffic control, which optimizes performance by dropping packets beyond the threshold, and port mirroring helps administrators facilitate traffic diagnostics and track switch performance. The DGS-F1210-10P/ME switch also provides IGMP snooping with IGMP authentication to prune multicast traffic and to optimize network performance.

Multicast Applications

The DGS-F1210-10P/ME Metro Ethernet Switch features a full set of L2 multicast functions, including IGMP snooping, IGMP snooping queried, IGMP filtering, fast leave, and multicast traffic configuration for specific ports. With L2 multicast support, it is ready and capable of handling growing IPTV applications.

Technical Specifications

Part code	DGS-F1210-10P/ME
Ports	8 10/100/1000 Base-T, 2 Gigabit SFP ports
Switching Capacity	20 Gbps
Forwarding Rate	14.67 Mpps
Dimensions mm (WxDxH)	280x179x45
Power Consumption	<15 W
POE/POE+	Support
POE Power	130 W
Power Supply	AC: 100V -240V, 50Hz ±10%
Environment	Operating temperature/ Humidity: 0°C-50°C, 10%-90% non-condensation
	Storage temperature/ Humidity: -20°C-70°C; 5%-95% non-condensation
	Power Saving by: Link status, LED or Port Shutoff
MAC Switching Function	Static configuration and dynamically learning of MAC address
	Check and delete MAC address
	Configuring of MAC address aging time
	Up to 256 Static MAC entries
	Limit on MAC address learning number
	MAC address filtering function
Port Mirroring	MAC address size 8K
	One-to-One, Many-to-One
	Supports Mirroring for Tx/Rx/Both

VLAN	4K VLAN entries
	GVRP
	1:1 and N:1 VLAN Mapping
	Q-in-Q
	Private VLAN
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)
	BPDU protection, root protection and ring protection
Multicast	IGMP v1/v2/v3
	IGMP Snooping
	IGMP Fast Leave
	Multicast group policy and multicast number limit
IPv6	ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
	IPv6 Neighbor Discovery
	MLD v1/v2
	MLD Snooping
QoS	Traffic classification of each field of L2/L3/L4 protocol headers
	CAR traffic control
	802.1P/DSCP priority remark
	Multiple queuing algorithms such as SP, WRR or SP+WRR
	WRED
	Traffic supervision and traffic shaping
Security features	Identification and filtering of L2/L3/L4 based ACL
	DOS or TCP attacks Prevention
	Suppression of broadcast, multicast and unknown unicast packet
	Port isolation
	Port security, IP+MAC+port binding
	DHCP Snooping, DHCP Option 82
	IEEE 802.1x certification
	Radius and Tacacs+
Reliability	Static/LACP link aggregation
Management and Maintenance	Console, Telnet, SSH 2.0
	WEB based management
	SNMP v1/v2/v3
	TFTP
	RMON

DGS-F1210-10P/ME Metro Ethernet Switches

Order Information	
DGS-F1210-10P/ME	8 10/100/1000 Base-T, 2 Gigabit SFP ports, 1 Console port, Fanless design
DGS-F1210-10P/ME-4KV	8 10/100/1000 Base-T, 2 Gigabit SFP ports, 1 Console port, Fanless design, 4KV surge protection for ethernet ports
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
DEM-314GT	1000BASE-LHX, single-mode, 50 km
DEM-315GT	1000BASE-ZX, single-mode, 80 km
DGS-712	1000BASE-T to SFP transceiver

Note: 1- Available in future after firmware upgrade