

Highlights

Easy Management

Web UI, CLI, and a variety of management features allow the switches to integrate with your existing network

IPv6 Ready

IPv6 compliance means that the switches are ready to meet future addressing standards, and are compatible with both your IPv4 and IPv6 network

Power over Ethernet

Increased PoE capability and support for IEEE 802.3af/at allow the PoE models in the series to power more devices with greater port density

Surge Protection General 4KV, Differential 2KV, ESD 8KV air, 6KV contact



DGS-F1500-28MP

24 Port Gigabit PoE Managed Switch

Features

Green Technology

- Link status detection
- Time-based PoE

Security Features

- Access Control Lists (ACLs)
- Port Security supports up to 64 MAC addresses per port
- Dynamic ARP inspection

Intuitive Management

- Web UI
- SNMP MIB for remote NMS
- Dual config support
- Command Line Interface (CLI)

Advanced Features

- Static route
- Auto Voice VLAN
- RIP v1/v2
- OSPF

The D-Link DGS-F1500-28MP 24 Port Gigabit PoE Managed Switch is the latest generation of switch to provide increased Power over Ethernet (PoE) output, a range of physical interface types, multiple management interfaces, and advanced Layer 2+ features. With all of these features combined, the DGS-F1500-28MP provides a cost-efficient and flexible solution for expanding any business network.

Seamless Integration

DGS-F1500-28MP model feature 24 100/1000 Mbps PoE ports and 4 10G SFP+ ports, allowing you to choose the most suitable media type for your requirements. DGS-F1500-28MP PoE switch include support for IEEE 802.3af/at and higher power budgets, allowing more PoE devices to be powered by the switch and for devices to be installed in remote locations without immediate access to power outlets.

Advanced Features

The DGS-F1500-28MP comes equipped with a complete lineup of L2+ features, including IGMP snooping, port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP), OSPF, RIP. The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfers. The DGS-F1500-28MP also supports advanced features such as static routes, which allow network administrators to divide the network into VLANs, increasing network effciency. Network maintenance features include loopback detection and cable diagnostics. Loopback detection significantly speeds up troubleshooting by automatically detecting and shutting down switching loops. The cable diagnostics feature, designed primarily for administrators and customer service representatives, determines the cable quality and quickly discovers errors, allowing for hassle-free diagnostics and maintenance.



Automatic Configuration

The DGS-F1500-28MP supports Auto Voice VLAN which allow voice traffic to be automatically identified and handled differently to regular network traffic. Au to Voice VLAN detects Voice over IP (V oI P) tr affic and automatically segments it from the rest of the network, increasing security and allowing Quality of Service (QoS) to be applied.

Secure Your Network

The DGS-F1500-28MP supports 802.1X port-based authentication, allowing the network to be authenticated through external RADIUS servers. The Access Control List (ACL) feature enhances network security and helps to protect the internal IT network. For added security, the DHCP server screening feature filters DHCP replies on unauthorized ports to prevent them from being assigned an IP address.

Versatile Management

The DGS-F1500-28MP can be managed via Web UI. The DGS-F1500-28MP also supports D-View 8.0 and Command Line Interface (CLI). D-View 8.0 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

Model	• DGS-F1500-28MP	
Hardware Version	• B1	
General		
Interfaces	• 24 10/100/1000BASE-T PoE + 4 1G/10G SFP+ Ports	
Console Port	• 10/100/1000BASE-T RJ-45 port for out-of-band CLI Management	
Port Standards	 IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) IEEE 802.3u 100BASE-FX 100 Mbps over fiber optic IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted- pair copper) IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3ar Flow Control IEEE 802.3af/at compliance (for PoE ports) 	
Network Cables	• UTP Cat. 5, Cat. 5e, Cat. 6 (100 m max.)	
Duplex Mode	Full/Half-duplex for 10/100 MbpsFull-duplex for 1000 Mbps	
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair ports	
Performance		
Switching Capacity	• 128 Gbps	
Transmission Method	Store-and-forward	
MAC Address Table	• 16K entries	
Static MAC Addresses	• 256 entries	
Maximum 64 Byte Packet Forwarding Rate	• 95.23Mpps	
Packet Buffer Memory	• 12 Mbits	
CPU Memory	• 128 MB	
Flash Memory	• 16 MB	



PoE	
PoE Capable Ports	• Ports 1 to 24
Power Budget	• 400W
LEDs	
Power (per device)	✓
Link/Active/Speed (per port)	✓
Physical/Environmental	
Power Input	• 100 to 240 V AC 50/60 Hz internal universal power supply
Maximum Power Consumption (PoE enabled)	• 417.2W/100V • 416.5W/240V
Maximum Power Consumption (PoE disabled)	• 17.2 W/100 V • 17.5 W/240 V
Standby Power Consumption	• 3 W/100 V • 3 W/240 V
Acoustics	• 48-50 dB(A)
Heat Dissipation	• 1433.45 BTU/hr (100 V) • 1431.74 BTU/hr (240 V)
Fans	• 2
Operating Temperature	• -5 to 50°C
Storage Temperature	• -20 to 70°C
Operating Humidity	• 0% to 95% relative humidity
Storage Humidity	• 0% to 95% relative humidity
Dimensions (L x W x H)	• 440 x 280 x 44 mm
Weight	• G.W: 5.15kg, N.W: 4.03kg
MTBF	• 760.000.hours



Software			
L2 Features	MAC Address Table 16K entries IGMP Snooping IGMP v1/v2 /v3 Snooping IGMP v3 awareness Supports 256 IGMP groups Supports at least 64 static multicast addresses IGMP per VLAN Supports IGMP Snooping Querier Loopback Detection 802.3ad Link Aggregation: Maximum of 8 groups/8 ports per grould be supported by the supports ICDP LLDP LLDP-MED Jumbo Frame Up to 10,000 bytes	· ·	Spanning Tree Protocol • 802.1D STP • 802.1W RSTP • 802.1s MSTP Flow Control • 802.3x Flow Control Port Mirroring • One-to-One • Many-to-One • Supports Mirroring for Tx/Rx/Both Multicast Filtering • Forwards all unregistered groups • Filters all unregistered groups Configurable MDI/MDIX • MLD snooping v1/v2 (256 groups)
VLAN	802.1Q VLAN Group Max. 4K staticVLAN groups		Configurable VID from 1 - 4094 Auto Voice VLAN
Quality of Service (QoS)	802.1p Quality of Service 8 queues per port Queue Handling Strict Weighted Round Robin (WRR) Bandwidth Control Port-based (ingress/egress, min granu Kbps)		QoS based on: • 802.1p priority queues • DSCP • ToS • IP preference
L3 Features	IP interface Supports 15 interfaces IPv6 Neighbor Discovery (ND)	Static routing • 32 IPv4 static route entries • 32 IPv6 static route entries	• RIP v1/v2 • OSPF
Access Control List (ACL)	Max. 512 access lists rule Each rule can only be associated with a single port ACL based on MAC address 802.1p priority mask VID mask Source/destination MAC address m EtherType mask IP address Source/destination IP address mas DSCP mask Protocol type mask TCP/UDP port number mask		IPv6 address Source/destination IP address mask DSCP mask Protocol type mask TCP/UDP port number mask
Security	BPDU Attack Prevention (BPDU Guard) Broadcast/Multicast/Unicast Storm Cor SSH v2 TLS v1.0 DoS attack prevention 802.1X Port-based Access Control Port Security Supports up to 64 MAC addresses pe Dynamic ARP Inspection Max. 127 entries	ntrol •	DHCP Server Screening IPv4 Inspection • Max. 127 entries IPv6 Inspection • Max. 63 entries DHCP Snooping • Max. 512 entries



AAA	802.1X Authentication Supports local/RADIUS database Supports MAC-based/port-based access control Supports EAP, PEAP Max. 128 entries when using local database	 IPv6 RADIUS server Support MD5 authentication TACACS+ Authentication Guest VLAN Dynamic VLAN Assignment
OAM	Cable diagnostics	Factory reset
Management	Web-based GUI CLI Telnet Server TFTP Client Configurable MDI/MDIX SNMP Supports v1/v2c/v3 SNMP Trap Firmware upgrade Upload/download configuration file BootP/DHCP Client DHCP Relay, DHCP Option 82	 System Log Max. 500 log entries SNTP ICMP v6 IPv4/v6 Dual Stack Time setting SNTP RMONv1 Trusted host
Green V3.0 Technology	Power Saving by: Link Status Time-based PoE: PoE ports can be turned on/o by port or system through schedule	Cable length detection
RFC Standards	 RFC791 IP RFC768 UDP RFC793 TCP RFC792 ICMPv4 RFC2463, RFC4443 ICMPv6 RFC826 ARP RFC1321, RFC2284, RFC2865, RFC2716, RFC3580 Extensible Authentication Protocol (EAP) 	 RFC2573 SNMP Applications RFC2461, RFC4861 Neighbor Discovery for IPv6 RFC2462, RFC4862 IPv6 Stateless Address Auto-conÿguration (SLAAC) RFC2464 IPv6 over Ethernet and deÿnition RFC4291 IPv6 Addressing Architecture RFC2893, RFC4213 IPv4/IPv6 dual stack function

Order Information	
DGS-F1500-28MP	24 10/100/1000 Mbps PoE ports and 4 1G/10G SFP+ Ports

Optional SFP Transceivers	
DGS-712	1000BASE-T copper
DEM-302S-LX	1000BASE-LX, single-mode, 2 km
DEM-302S-BXD/BXU	Gigabit WDM transceiver, 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	100BASE-ZX, single-mode, 80 km
DEM-330T/R	Gigabit WDM transceiver, single-mode 10 km
DEM-331T/R	Gigabit WDM transceiver, single-mode 40 km
DEM-210	100BASE-FX, single-mode, 15 km
DEM-211	100BASE-FX, multi-mode, 2 km
DEM-220T/R	Fast Ethernet WDM transceiver, single-mode, 20 km



Optional SFP+ Transceivers	
DEM-431XT	10GBASE-SR Multi-mode, OM1:33M/OM2:82M/OM3:300M (w/o DDM)
DEM-431XT-DD	10GBASE-SR Multi-mode, OM1:33M/OM2:82M/OM3:300M (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)

Optional 10 Gbps SFP+ Direct Attach Cables	
DEM-CB100S	10 GbE SFP+ 1 m Direct Attach Cable
DEM-CB300S	10 GbE SFP+ 3 m Direct Attach Cable
DEM-CB700S	10 GbE SFP+ 7 m Direct Attach Cable

