

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

High Port density

24 SFP Ports with 8* 10/100/1000M Ethernet Combo Ports, 4* 10G SFP +Ports

Surge Protection

General 4KV, Differential 2KV, ESD 8KV air,6KV Contact



DGS-F1500-28XS

24 Port SFP Managed Switch with 10G Uplinks

Features

- Support 24 SFP Ports with 8* 10/100/1000M adaptive Ethernet Combo Ports, 4* 10G SFP +Ports, 1* Console Port
- Support IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1p, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3ae standard
- L3 Management, support DHCP Server, QoS, ACL control, support SNMP V1/V2/V3, IGMP Snooping v1/v2/v3
- Support STP/RSTP/MSTP(ERPS), support loop detection and self-healing, support remote loopback monitoring and control (802.3ah OAM)
- Support multiple VLAN division, MAC VLAN, Protocol VLAN, Private VLAN
- Support IP address + MAC address + VLAN + Port binding, DHCP Snooping, support IP source and DAProtection
- Support IPV4/IPV6, RIP, OSPF
- Lightning protection: common mode 4KV, differential mode 2KV

DGS-F1500-28XS is Gigabit L3 Managed Ethernet Switch, support 24* 1000M SFP Ports, 8* 10/100/1000M adaptive Ethernet Ports(Combo), 4* 10G SFP Ports, 1* Console Port. Perfect security control strategy and CPU protect policy improve fault tolerance and ensure stable operation of the network and load balancing of the interconnection. The device supports automatic DoS attack defense and SNMP, IEEE 802.1, STP, RSTP, Link aggregation, and other functions. With advanced security functions and quality of service (QoS), it can be used as core layer, distribution layer, and access layer switch with high density port and easy management, is an ideal choice for various business network applications.

Advanced Features

The DGS-F1500-28XS comes equipped with a complete lineup of L2+ features and certain L3 features, including IGMP snooping, DHCP Server, port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP), SNMP v1/v2/v3, OSPF, RIP. The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfers.

Application Environment

Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration, etc. **Broadband private network:** Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries. **Multimedia transmission:** Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications. **Real-time monitoring:** Simultaneous transmission of real-time control signals, images and data.

Secure Your Network

The DGS-F1500-28XS 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-F1500-28XS 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.

TECHNICAL SPECIFICATIONS

Model	• DGS-F1500-28XS
Hardware Version	• A1
General	
Interfaces	24 x 10/100/1000M SFP Ports with 8 x 10/100/1000M Base Combo Ports, 4 x 10G SFP +Ports
Console Port	• 10/100/1000BASE-T RJ-45 port for out-of-band CLI Management
Port Standards	<ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic <ul style="list-style-type: none"> • IEEE 802.3az Energy Efficient Ethernet (EEE) <ul style="list-style-type: none"> • IEEE 802.3x Flow Control <ul style="list-style-type: none"> • IEEE 802.1d (STP) • IEEE 802.1w (RSTP) • IEEE 802.1s (MSTP) • IEEE 802.1p (VLAN Cable) • IEEE 802.3ac (10G Ethernet)
Network Cables	• UTP Cat. 5, Cat. 5e, Cat. 6 (100 m max.)
Duplex Mode	<ul style="list-style-type: none"> • Full/Half-duplex for 10/100 Mbps • Full-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

LEDs	
Power (per device)	✓
Link/Active/Speed (per port)	✓
Physical/Environmental	
Power Input	<ul style="list-style-type: none"> • 100 to 240 V AC 50/60 Hz internal universal power supply
Maximum Power Consumption	<ul style="list-style-type: none"> • Maximum 38W
Indicator	<ul style="list-style-type: none"> • Product Dimensions: 440*205*44mm • Package Dimensions: 500*290*85mm
Standby Power Consumption	<ul style="list-style-type: none"> • 3 W/100V • 3 W/240V
Acoustics	<ul style="list-style-type: none"> • 55 dB(A)
Heat Dissipation	<ul style="list-style-type: none"> • 153.5 BTU/hr
Fans	<ul style="list-style-type: none"> • 1
Operating Temperature	<ul style="list-style-type: none"> • -10 to 50°C
Storage Temperature	<ul style="list-style-type: none"> • -40 to 70°C
Operating Humidity	<ul style="list-style-type: none"> • 10% to 90% relative humidity
Storage Humidity	<ul style="list-style-type: none"> • 5% to 95% relative humidity
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 440 x 205 x 44 mm
Weight	<ul style="list-style-type: none"> • G.W: 3.63kg, N.W: 3.06kg
MTBF	<ul style="list-style-type: none"> • 7,60000 hours

Software	
L2 Features	<ul style="list-style-type: none"> • MAC Address Table <ul style="list-style-type: none"> • 16K entries • IGMP Snooping <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Maximum of 8 groups/8 ports per group • LLDP • LLDP-MED • Jumbo Frame <ul style="list-style-type: none"> • Up to 10,000 bytes • Spanning Tree Protocol <ul style="list-style-type: none"> • 802.1D STP • 802.1W RSTP • 802.1s MSTP • Flow Control <ul style="list-style-type: none"> • 802.3x Flow Control • Port Mirroring <ul style="list-style-type: none"> • One-to-One • Many-to-One • Supports Mirroring for Tx/Rx/Both • Multicast Filtering <ul style="list-style-type: none"> • Forwards all unregistered groups • Filters all unregistered groups • Configurable MDI/MDIX <ul style="list-style-type: none"> • MLD snooping v1/v2 (256 groups)
VLAN	<ul style="list-style-type: none"> • 802.1Q • VLAN Group <ul style="list-style-type: none"> • Max. 4K static VLAN groups • Q-in-Q Tunnel • Configurable VID from 1 - 4094 • Auto Voice VLAN • Mac VLAN • Surveillance VLAN • Protocol VLAN • GVRP
Quality of Service (QoS)	<ul style="list-style-type: none"> • 802.1p Quality of Service • 8 queues per port • Queue Handling <ul style="list-style-type: none"> • Strict • Weighted Round Robin (WRR) • Bandwidth Control <ul style="list-style-type: none"> • Port-based (ingress/egress, min granularity 10/100/1000 is 16 Kbps) • QoS based on: <ul style="list-style-type: none"> • 802.1p priority queues • DSCP • ToS • IP preference
L3 Features	<ul style="list-style-type: none"> • IP interface <ul style="list-style-type: none"> • Supports 32 interfaces • IPv6 Neighbor Discovery (ND) • Static routing <ul style="list-style-type: none"> • 4K, IPv4 & IPv6 sharing • RIP v1/v2 • OSPF
Access Control List (ACL)	<ul style="list-style-type: none"> • Max. 512 access lists • Max. 127 rules shared by IPv4, MAC, and IPv6 • Each rule can only be associated with a single port • ACL based on <ul style="list-style-type: none"> • MAC address <ul style="list-style-type: none"> • 802.1p priority mask • VID mask • Source/destination MAC address mask • EtherType mask • IP address <ul style="list-style-type: none"> • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask • IPv6 address <ul style="list-style-type: none"> • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask
Security	<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Storm Control • SSH v2 • TLS v1.0 • DoS attack prevention • 802.1X Port-based Access Control • Port Security <ul style="list-style-type: none"> • Supports up to 64 MAC addresses per port • Protect/Restrict/Shutdown • Dynamic ARP Inspection <ul style="list-style-type: none"> • Max. 127 entries • DHCP Server Screening • IPv4 Inspection <ul style="list-style-type: none"> • Max. 255 entries • DHCP Snooping <ul style="list-style-type: none"> • Max. 255 entries

AAA	<ul style="list-style-type: none"> • 802.1X Authentication • Supports local/RADIUS database • Supports port-based access control • Supports EAP, PEAP • Mac- local entries : 256 • Web-local entries : 64 	<ul style="list-style-type: none"> • IPv6 RADIUS server • Support MD5 authentication • TACACS+ Authentication
OAM	<ul style="list-style-type: none"> • Cable diagnostics 	<ul style="list-style-type: none"> • Factory reset
Management	<ul style="list-style-type: none"> • Web-based GUI • CLI • Telnet Server • TFTP Client • Configurable MDI/MDIX • SNMP <ul style="list-style-type: none"> • Supports v1/v2c/v3 • SNMP Trap • Firmware upgrade • Upload/download configuration file • BootP/DHCP Client 	<ul style="list-style-type: none"> • System Log <ul style="list-style-type: none"> • Max. 500 log entries • SNTP • ICMP v6 • IPv4/v6 Dual Stack • Time setting <ul style="list-style-type: none"> • SNTP • RMONv1 • Trusted host • DHCP Server • DHCP Relay
Green V3.0 Technology	<ul style="list-style-type: none"> • Power Saving by: <ul style="list-style-type: none"> • Link Status 	<ul style="list-style-type: none"> • Cable length detection
RFC Standards	<ul style="list-style-type: none"> • RFC791 IP • RFC768 UDP • RFC793 TCP • RFC792 ICMPv4 • RFC2463, RFC4443 ICMPv6 • RFC826 ARP • RFC1321, RFC2284, RFC2865, RFC2716, RFC3580 Extensible Authentication Protocol (EAP) 	<ul style="list-style-type: none"> • RFC2573 SNMP Applications • RFC2461, RFC4861 Neighbor Discovery for IPv6 • RFC2462, RFC4862 IPv6 Stateless Address Auto-configuration (SLAAC) • RFC2464 IPv6 over Ethernet and definition • RFC4291 IPv6 Addressing Architecture • RFC2893, RFC4213 IPv4/IPv6 dual stack function

Order Information

DGS-F1500-28XS	24 SFP ports with 8 x 10/100/1000 Ethernet Combo Ports + 4 x 10G SFP+ Ports
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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