



Technical Specification	
General	
Network Interface	24/10/100/1000 Mbps PoE RJ45 port (port1~port24) 2Gigabit SFP Ports
Console Port	RJ45
DIP Switches	VLAN, Extend, PoE, QoS
Transmission Rate	10/100/1000Mbps Each port supports MDI / MDIX auto-flip and auto-negotiation Network interface: IOBASE-T or IOBASE-TX, 1000 BASE-T Ethernet RJ-45 port
Protocols and Standards	IEEE802.3 10BASE-T IEEE 802.3u 100BASE-TX ANSI/IEEE 802.3 NWay auto-negotiation IEEE802.3ab 1000 BASE-T IEEE802.3z 1000 BASE-X IEEE802.3x Flow Control IEEE 802.3af/at standard
Functionality	
Switching Capacity	52 Gbps
Packet Forwarding	38.688 Mpps
Packet Buffer Memory	4.1 Mbits
DRAM	128 MB
Flash Memory	16 MB
LED's Indicator PoE	Power, SYS, LINK/ACT, PoE
Budget	400 W
MAC Address Table	8K Entries
Power	100-240 VAC, 50-60 Hz
Lightning protection	6 KV
Max Power Consumption	410W
Physical	
Physical Characteristics	Dimensions (LxWxH): 440 x 180 x 44 mm Weight: 3.2 kg
Environmental Parameter	Operating Temperature: 0 to 50 °C (32 to 122 °F) Operating Humidity: 10% to 90% non-condensing

Software Specification	
Protocol Standard	<p>IEEE 802.3: Ethernet Media Access Control (MAC) Protocol            IEEE 802.3i: 10BASE-T Ethernet            IEEE 802.3u: 100BASE-TX Fast Ethernet            IEEE 802.3ab: 1000BASE-T Gigabit Ethernet            IEEE 802.3z: 1000BASE-X Gigabit Ethernet (fiber)            IEEE 802.3ad: Standard method for performing link aggregation            IEEE 802.3x: flow control            IEEE 802.1p: LAN Layer 2 Qos/Cos protocol for traffic priority (multicast filtering)            IEEE 802.1q: VLAN            IEEE 802.1d: STP Spanning tree            IEEE 802.1s: MSTP Spanning tree            IEEE 802.1w: RSTP Spanning tree            IEEE 802.3af            IEEE 802.3at</p>
DHCP	DHCP Snooping
VLAN	<p>4K VLAN            802.1Q VLAN, MAC VLAN ,IP VLAN            Voice VLAN</p>
MAC address table	<p>Comply the IEEE 802.1d standard            MAC address learning and aging automatically            Static, dynamic, filter address table</p>
Security	<p>Password protection            Based on the port number, IP address, MAC address restrictions on user access            HTTPS, SSL V3, TLS V1, SSH V1/V2            IP-MAC-PORT ternary binding            ARP protection, IP source protection, DoS protection            DHCP Snooping, DHCP attack protection            802.1X, AAA            Port security, port isolation            CPU protection</p>
POE management	<p>POE power limit            POE chip status view            PoE port priority            PoE power supply time period</p>
Access control (ACL)	<p>L2 (Layer 2) ~ L4 (Layer 4) packet filtering            Port mirroring, port redirection, flow rate limiting, QoS re-marking</p>
Quality of Service (QoS)	<p>8 port queue            Port priority, 802.1p priority, DSCP priority            SP, RR, WRR, WFQ Priority scheduling algorithm</p>
Spanning Tree	<p>STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) protocol            Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering</p>
Multicast	<p>IGMP v1/v2 Snooping            Fast leave mechanism            Multicast VLAN            Multicast filtering, packet statistics, and unknown multicast discards.</p>
Storm suppression	<p>Multicast suppression            Broadcast suppression            Unknown unicast suppression</p>

Software Specification	
Link aggregation	Static aggregation Dynamic aggregation IP, MAC, and hybrid load balancing modes Up to 32 aggregation groups
IPv6	IPv6 Ping, IPv6 Tracert, IPv6 Telnet IPv6 SSH, IPv6 SSL
Management and maintenance	WEB network management (HTTP, HTTPS, SSL V3) CLI (Telnet, SSH V1/V2, local serial port) SNMP V1/V2/V3 LLDP, RMON ARP protection, IP source protection, DoS protection CPU monitoring, memory monitoring System log, grading warning Ping, Tracert detection, cable detection

Order Information	
Part Number	Description
DGS-F1210-26PS-E	26-Port Layer 2 Gigabit Managed Long Range PoE+ Switch with 2 SFP Ports

## Switch working mode

Using DIP switch, the working mode of DGS-F1210-26PS-E can be changed

1. Extend Mode: 1-8 ports support 250 meters long distance power supply (should be use Cat5e or Cat6 cable)
2. Port Isolation Mode: Isolating ports 1-24 to each other can effectively suppress network storms and improve network performance.
3. QoS Mode: Customize application priority to improve network sensitivity. For example, video priority, monitoring transmission is more smooth
4. PD Alive Mode: Automatically detect the power receiving port, find the dead device, power off and restart the devices