

Technical Specifications					
Model Number	• DGS-1210-10	• DGS-1210-20	• DGS-1210-26	• DGS-1210-28	• DGS-1210-52
Hardware Version	• F1				
General					
Interfaces	• 8 10/100/1000BASE-T + 2 100/1000 Mbps SFP ports	• 16 10/100/1000BASE-T + 4 100/1000 Mbps combo ports	• 24 10/100/1000BASE-T + 2 100/1000 Mbps SFP ports	• 24 10/100/1000BASE-T + 4 100/1000 Mbps combo ports	• 48 10/100/1000BASE-T + 4 100/1000 Mbps combo ports
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) • IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic • IEEE 802.3az Energy Efficient Ethernet (EEE) • IEEE 802.3x Flow Control 				
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	• 20 Gbps	• 40 Gbps	• 52 Gbps	• 56 Gbps	• 104 Gbps
Transmission Method	• Store-and-forward				
MAC Address Table	• 8K entries				
Static MAC Addresses	• 256 entries				
Maximum 64 Byte Packet Forwarding Rate	• 14.88 Mpps	• 29.8 Mpps	• 38.7 Mpps	• 41.7 Mpps	• 77.4 Mpps
Packet Buffer Memory	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 12 Mbits
CPU Memory	• DDR3 128 MB				
Flash Memory	• 32 MB				
LEDs					
Power (per device)	✓				
Console (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	• 6.31 W/100V • 6.33 W/240V	• 13.08 W/100V • 13.02 W/240V	• 15.22 W/100V • 15.11 W/240V	• 17.32 W/100V • 16.94 W/240V	• 34.85 W/100V • 34.2 W/240V
Standby Power Consumption	• 2.03 W/100V • 2.07 W/240V	• 5.47 W/100V • 5.56 W/240V	• 5.01 W/100V • 5.06 W/240V	• 6.49 W/100V • 6.55 W/240V	• 13.7 W/100V • 13.9 W/240V
Acoustics	• 0 dB(A)				
Heat Dissipation	• 21.53 BTU/hr (100V) • 21.59 BTU/hr (240V)	• 44.62 BTU/hr (100V) • 44.41 BTU/hr (240V)	• 51.93 BTU/hr (100V) • 51.57 BTU/hr (240V)	• 59.09 BTU/hr (100V) • 57.79 BTU/hr (240V)	• 118.92 BTU/hr (100V) • 116.7 BTU/hr (240V)

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)	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 inch)	• 280 x 180 x 44 mm (11.02 x 7.09 x 1.73 inch)	• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 inch)	• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 inch)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 inch)
Weight	• 0.98 kg (2.16 lb)	• 1.75 kg (3.86 lb)	• 2.06 kg (4.54 lb)	• 2.15 kg (4.74 lb)	• 3.46 kg (7.63 lb)
Certifications	<ul style="list-style-type: none"> • EMI: CE Class A, VCCI Class A, FCC Class A, BSMI, CCC • Safety: CB, UL, BSMI, CCC 				
MTBF	• 1,380,058 hours	• 1,087,100 hours	• 1,082,534 hours	• 992,594 hours	• 400,667 hours

Technical Specifications

Model	• DGS-1210-10P	• DGS-1210-10MP	• DGS-1210-28P	• DGS-1210-28MP	• DGS-1210-52MP
Hardware Version	• F1				

General

Interfaces	• 8 10/100/1000BASE-T PoE + 2 100/1000 Mbps SFP ports	• 8 10/100/1000BASE-T PoE + 2 100/1000 Mbps SFP ports	• 24 10/100/1000BASE-T PoE + 4 100/1000 Mbps combo ports	• 24 10/100/1000BASE-T PoE + 4 100/1000 Mbps combo ports	• 48 10/100/1000BASE-T PoE + 4 100/1000 Mbps combo ports
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) • IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic • IEEE 802.3az Energy Efficient Ethernet (EEE) <ul style="list-style-type: none"> • IEEE 802.3x Flow Control • IEEE 802.3af/at compliance (for PoE ports) 				
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	• 20 Gbps	• 20 Gbps	• 56 Gbps	• 56 Gbps	• 104 Gbps
Transmission Method	• Store-and-forward				
MAC Address Table	• 8K entries				
Static MAC Addresses	• 256 entries				
Maximum 64 Byte Packet Forwarding Rate	• 14.88 Mpps	• 14.88 Mpps	• 41.7 Mpps	• 41.7 Mpps	• 77.4 Mpps
Packet Buffer Memory	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 12 Mbits
CPU Memory	• DDR3 128 MB				
Flash Memory	• 32 MB				

PoE					
PoE Capable Ports	• Ports 1 to 8		• Ports 1 to 24		• Ports 1 to 48
Power Budget	• 65 W	• 130 W	• 193 W	• 370 W	• 370 W
LEDs					
Power (per device)	✓	✓	✓	✓	✓
Console (per device)	✓	✓	✓	✓	✓
Link/Active/Speed (per port)	✓	✓	✓	✓	✓
PWR Max	✓	✓	✓	✓	✓
Fan Error	• N/A	• N/A	✓	✓	✓
Physical/Environmental					
Power Input	• 54.0 V DC external power adapter	• 100 to 240 V AC 50/60 Hz internal universal power supply			
Maximum Power Consumption (PoE enabled)	• 81.9 W/100 V • 80.6 W/240 V	• 152.3 W/100 V • 148.7 W/240 V	• 263.9 W/100 V • 247.4 W/240 V	• 446.1 W/100 V • 424.8 W/240 V	• 478.9 W/100 V • 454.1 W/240 V
Maximum Power Consumption (PoE disabled)	• 7.6 W/100 V • 7.5 W/240 V	• 8.5 W/100 V • 9.4 W/240 V	• 30.6 W/100 V • 28.1 W/240 V	• 29.8 W/100 V • 29.0 W/240 V	• 54 W/100 V • 54.4 W/240 V
Standby Power Consumption	• 2.5 W/100 V • 2.5 W/240 V	• 4.3 W/100 V • 5.2 W/240 V	• 19.6 W/100 V • 16.6 W/240 V	• 18.5 W/100 V • 17.1 W/240 V	• 32 W/100 V • 31.6 W/240 V
Acoustics	• 0 dB(A)	• 0 dB(A)	• High speed: 51.7 dB(A) • Low speed: 44.9 dB(A)	• High speed: 51.7 dB(A) • Low speed: 44.9 dB(A)	• High speed: 52.4 dB(A) • Low speed: 47.6 dB(A)
Heat Dissipation	• 279.59 BTU/hr (100 V) • 275.04 BTU/hr (240 V)	• 519.51 BTU/hr (100 V) • 507.23 BTU/hr (240 V)	• 900.36 BTU/hr (100 V) • 844.23 BTU/hr (240 V)	• 1521.99 BTU/hr (100 V) • 1449.49 BTU/hr (240 V)	• 1634.01 BTU/hr (100 V) • 1549.29 BTU/hr (240 V)
Fans	• N/A	• N/A	• 2	• 2	• 3
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)	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 inch)	• 330 x 180 x 44 mm (12.99 x 7.09 x 1.73 inch)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 inch)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 inch)	• 440 x 430 x 44 mm (17.32 x 16.93 x 1.73 inch)
Weight	• 0.95 kg (2.10 lb)	• 1.77 kg (3.90 lb)	• 3.75 kg (8.27 lb)	• 3.94 kg (8.69 lb)	• 6.26 kg (13.80 lb)
Certifications	• EMI: CE Class A, VCCI Class A, FCC Class A, BSMI, CCC • Safety: CB, UL, BSMI, CCC				
MTBF	• 729,258 hours	• 1,274,005 hours	• 469,262 hours	• 277,967 hours	• 236,406 hours

Software		
L2 Features	<ul style="list-style-type: none"> • MAC Address Table <ul style="list-style-type: none"> • 8K entries • IGMP Snooping <ul style="list-style-type: none"> • IGMP v1/v2 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 	<ul style="list-style-type: none"> • 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 • HOL Blocking Prevention • 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. 256 static VLAN groups • Configurable VID from 1 - 4094 • Asymmetric VLAN 	<ul style="list-style-type: none"> • Auto Voice VLAN <ul style="list-style-type: none"> • Max. 10 user-defined OUI • Max. 8 default OUI • Auto Surveillance VLAN
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) 	<ul style="list-style-type: none"> • QoS based on: <ul style="list-style-type: none"> • 802.1p priority queues • DSCP • MAC address • EtherType • IP address • Protocol type • ToS • IP preference • IPv6 Traffic Class • TCP/UDP port
L3 Features	<ul style="list-style-type: none"> • IP interface <ul style="list-style-type: none"> • Supports 4 interfaces • IPv6 Neighbor Discovery (ND) 	<ul style="list-style-type: none"> • Static routing <ul style="list-style-type: none"> • 124 IPv4 static route entries • 50 IPv6 static route entries
Access Control List (ACL)	<ul style="list-style-type: none"> • Max. 50 access lists • Max. 768 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 	<ul style="list-style-type: none"> • IPv6 address <ul style="list-style-type: none"> • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask • IPv6 traffic class mask
Security	<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • Traffic segmentation • 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 • ARP Spoofing Prevention <ul style="list-style-type: none"> • Max. 127 entries 	<ul style="list-style-type: none"> • DHCP Server Screening • IP-MAC-Port Binding (Smart Binding) <ul style="list-style-type: none"> • ARP Inspection <ul style="list-style-type: none"> • Max. 256 entries • IPv4 Inspection <ul style="list-style-type: none"> • Max. 127 entries • IPv6 Inspection <ul style="list-style-type: none"> • Max. 63 entries • DHCP Snooping <ul style="list-style-type: none"> • Max. 512 entries

AAA	<ul style="list-style-type: none"> • 802.1X Authentication <ul style="list-style-type: none"> • Supports local/RADIUS database • Supports port-based access control • Supports EAP, OTP, TLS, TTLS, PEAP • Max. 128 entries when using local database 	<ul style="list-style-type: none"> • IPv6 RADIUS server • Support MD5 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 • D-Link Network Assistant Utility • Compact CLI • Telnet Server • TFTP Client • Configurable MDI/MDIX • SNMP <ul style="list-style-type: none"> • Supports v1/v2c/v3 • SNMP Trap • Backup/upgrade firmware • Smart Wizard • 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 • SNMP • ICMP v6 • IPv4/v6 Dual Stack • DHCP Auto Configuration • Time setting <ul style="list-style-type: none"> • SNTP • RMONv1 • Trusted host • Dual image • Dual configuration
Green V3.0 Technology	<ul style="list-style-type: none"> • Power Saving by: <ul style="list-style-type: none"> • Link Status • Time-based PoE: PoE ports can be turned on/off by port or system through schedule 	<ul style="list-style-type: none"> • System hibernation • Port shut off • Cable length detection
MIBs	<ul style="list-style-type: none"> • RFC1212 Concise MIB Definitions • RFC1213 MIBII • RFC1215 MIB Traps Convention • RFC1493 Bridge MIB • RFC1157, RFC2573, RFC2575, RFC2576 SNMP MIB • RFC1442, RFC1901, RFC1902, RFC1903, RFC1904, RFC1905, RFC1906, RFC1907, RFC1908, RFC2578, RFC3418 SNMPv2 MIB • RFC271, RFC1757, RFC2819 RMON MIB • RFC2021 RMONv2 MIB • RFC1398, RFC1643, RFC1650, RFC2358, RFC2665 Ether-like MIB 	<ul style="list-style-type: none"> • RFC2674 802.1p MIB • Interface Group MIB • RFC2618 RADIUS Authentication Client MIB • RFC4022 MIB for TCP • RFC4113 MIB for UDP • RFC2389 MIB for Diffserv. • RFC2620 RADIUS Accounting Client MIB • Private MIB • PoE MIB • DDP MIB • LLDP-MED MIB
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-1210-10	8 10/100/1000 Mbps ports and 2 100/1000 Mbps SFP ports
DGS-1210-10P	8 10/100/1000 Mbps PoE ports and 2 100/1000 Mbps SFP ports
DGS-1210-20	16 10/100/1000 Mbps ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-26	24 10/100/1000 Mbps ports and 2 100 Mbps/1 Gbps SFP ports
DGS-1210-28	24 10/100/1000 Mbps ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-28P	24 10/100/1000 Mbps PoE ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-28MP	24 10/100/1000 Mbps PoE ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-52MP	48 10/100/1000 Mbps PoE ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-52	48 10/100/1000 Mbps ports and 4 100 Mbps/1 Gbps combo 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

DGS-1210 Series Smart Managed Switches

D-View 7 Order Information	
<i>Part Number</i>	<i>Description</i>
DV-700-N25-LIC	D-View 7 - 25 node license
DV-700-N50-LIC	D-View 7 - 50 node license
DV-700-N100-LIC	D-View 7 - 100 node license
DV-700-N250-LIC	D-View 7 - 250 node license
DV-700-N500-LIC	D-View 7 - 500 node license
DV-700-N1000-LIC	D-View 7 - 1000 node license
DV-700-P5-LIC	D-View 7 - 5 probe license
DV-700-P10-LIC	D-View 7 - 10 probe license
DV-700-P25-LIC	D-View 7 - 25 probe license
DV-700-P50-LIC	D-View 7 - 50 probe license
DV-700-P100-LIC	D-View 7 - 100 probe license

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