



L3 Gigabit Stack

Multi-Layer Routing Switch

- Up to 48 Gigabit Connections Per Switch
- 4 Combo 1000BASE-T/ SFP Fiber
- 2 or 3 Open Slots for Optional 10-Gigabit Uplinks
- Virtual Stack or Physical High-Speed Stacking
- Robust Security With Enhanced Performance/Availability
- Malicious Traffic and Performance Degradation Prevention

he xStack DGS-3600 series of next generation Layer 3 Gigabit switches delivers performance, flexibility, security, multi-layer QoS and access, and redundant power option for SMB and enterprises. With high Gigabit port densities, SFP support, 10-Gigabit uplink options and advanced software functions, these switches can act as departmental accesslayer devices or core switches to form a multi-level network structured with high-speed backbone and centralized servers. Telecom service providers can also take advantage of the high SFP density switches to form the core of their Fiber to the building (FTTB) network that extends to the subscribers' sites.

Unparalleled Flexibility

Easy to deploy and simple to manage, the DGS-3600 series can be stacked with any switches supporting D-Link's Single IP Management to form a multi-level network structured with backbone and centralized high-speed servers. This virtual stack can comprise units located anywhere on the same network domain, and uses the optional 10-Gigabit uplinks to move intra-stack traffic at 20Gbps full duplex. It can eliminate single point of failure, cable distance barriers, physical stacking method limitations and the need for stacking cabling.

Redundant Ring Stacking

Alternatively, users can install one or two 10-Gigabit uplinks, depending on whether the linear or fault-tolerant ring stacking is implemented, to create a physical stack. Up to 12 units or 576 Gigabit ports can be configured for a stack. Using the coaxial or fiber cable as the medium to stack switches together, the DGS-3600 series provides not only high-bandwidth stacking but also the cost control capability that allows users to add 10-Gigabit uplinks strictly as needed. Modules with single 10-Gigabit XFP can also be installed in any of the open slots for uplink to servers or a fiber backbone.

Security, Performance & Availability

The DGS-3600 series provides a complete set of security features, which includes L2/L3/L4 multi-layer Access Control Lists and 802.1X user authentication via TACACS+ and RADIUS servers. Built-in D-Link ZoneDefense technology allows business to integrate the switch stack with D-Link NetDefend firewalls to implement a full coverage, proactive security architecture.

The DGS-3600 series offers extensive VLAN support including GARP/GVRP and 802.1Q VLAN to enhance security and performance. To support converged applications including VoIP, ERP, Intranet and video conference, a robust set of L2/L3/L4 QoS/CoS features ensures that critical network services are served with proper priority. To prevent malicious flooding traffic caused by worm/virus infections, the DGS-3600 series provides D-Link Safeguard Engine to increase the switch's reliability, serviceability and availability. Bandwidth Control can be flexibly set for each port using pre-defined thresholds to assure a committed level of service for end users. For advanced applications, per-flow bandwidth control allows easy fine-tuning of service types based on specific IP addresses or protocols.

FEATURES

- Flexible Choices
 Up to 48 10/100/1000BASE-T Ports or 24 SFP Slots
- 4 Combo 10/100/1000 BASE-T/SFP ports 2 or 3 Open Slots for Optional Single-Port 10-
- Gigabit Uplinks
- Stackable Through 10-Gigabit Coaxial or Fiber Ports
- Optional External Redundant Power Supply

xStack Integration

- Virtual Stack of Up to 32 Units Using Single IP Management
- Physical Stack of Up to 12 Units, 576 Gigabit Ports 1

Quality of Service

- 802.1p Priority Queues/Multi-Layer Cos IP Multicast Support for Bandwidth-Intensive Applications

 Committed Information Rate

Security

- L2/L3/L4 Multi-Layer Access Control
 External RADIUS/TACACS+ Authentication Support
- SSH/SSL Support
- 802.1X Guest VLAN
- Web-based Access Control (WAC) MAC-based Access Control (MAC)
- D-Link Safeguard Engine Support Microsoft NAP

Traffic Monitoring/Bandwidth Control

- Granular Bandwidth Control Down to 64Kbps Per
- Granular Broadcast Storm Control Down to 1pps
- Per Port 802.3ad Link Aggregation
- RMON Support
- Port Mirroring

Configuration/Management

- Web-based GUI
- Command Line Interface (CLI)
 SNMP v1, v2c, v3
- D-Link Single IP Management (SIM) v.1.6 Telnet
- Dual Images/Configurations DHCP Server
- sFlow
- LLDF

Calculation based on a stack of 12 DGS-3650 switches. DGS-3612/DGS-3612G switch does not support physical stacking.











Technical Specifications

DGS-3612

DGS-3612G

DGS-3627

DGS-3627G

DGS-3650



| Interface Combo Open RS-23 Install Physical Stacking Max N Stack No. of Optional 10-Gigabit Uplink Single Single | 00/1000BASE-T Ports Slots bo 10/100/1000BASE-T/SFP Ports in Slot for 10-Gigabit Uplink Modules 232 Console Port Illable Module for Stacking Number of Stacking Ports Installable king Speed (Per Port) of Units Per Stack le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) ch Fabric | 8 - 4 - 1 - - - - | - 8 4 - 1 - - - - | • | 20 4 3 1 Port DEM-410CX or 2 CX4 or XFP Port 20Gbps (Full-Duplex | ts |
|--|--|---|---|-------------------------|--|---------------------|
| Interface Combo Open RS-23 Install Physical Stacking Max N Stack No. of Optional 10-Gigabit Uplink Single | bo 10/100/1000BASE-T/SFP Ports In Slot for 10-Gigabit Uplink Modules 232 Console Port Isolable Module for Stacking Number of Stacking Ports Installable king Speed (Per Port) In Units Per Stack It STP Slot Module (DEM-410X) It CX4 Port Module (DEM-410CX) | - 1 - - - | 1 | 4 3 1 Single-F | 4 3 1 Port DEM-410CX or 2 CX4 or XFP Port 20Gbps (Full-Duplex 12 | 2 1 DEM-410X |
| Physical Stacking Physical Stacking Max N Stack No. of Optional 10-Gigabit Uplink Single | n Slot for 10-Gigabit Uplink Modules 232 Console Port Illable Module for Stacking Number of Stacking Ports Installable king Speed (Per Port) of Units Per Stack le XFP Slot Module (DEM-410X) | - 1 - - - | 1 | 3 1 Single-F | 3 1 Port DEM-410CX or 2 CX4 or XFP Port 20Gbps (Full-Duplex 12 | 2 1 DEM-410X |
| Physical Stacking Physical Stacking Max N Stack No. of Optional 10-Gigabit Uplink Single | 232 Console Port Illable Module for Stacking Number of Stacking Ports Installable king Speed (Per Port) of Units Per Stack le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) | 1 | - - - | 1 Single-F | 1 Port DEM-410CX or 2 CX4 or XFP Port 20Gbps (Full-Duplex 12 | 1 DEM-410X is) |
| Physical Stacking Max N Stack No. of Optional 10-Gigabit Uplink Single | Number of Stacking Ports Installable king Speed (Per Port) of Units Per Stack le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) | - - - - | - - - | Single-F | Port DEM-410CX or 2 CX4 or XFP Pori 20Gbps (Full-Duplex 12 | DEM-410X ds) |
| Physical Stacking Max N Stack No. of Optional 10-Gigabit Uplink Single | Number of Stacking Ports Installable king Speed (Per Port) of Units Per Stack le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) | | - | 12 | 2 CX4 or XFP Port 20Gbps (Full-Duplex 12 | ts) 12 |
| Stack No. of Optional 10-Gigabit Uplink Single | king Speed (Per Port) of Units Per Stack le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) | - - - - | - | 12 | 20Gbps (Full-Duplex 12 | 12 |
| Stack No. of Optional 10-Gigabit Uplink Single | of Units Per Stack le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) | - - - | - | 12 | 12 | 12 |
| Optional 10-Gigabit Uplink Single | le XFP Slot Module (DEM-410X) le CX4 Port Module (DEM-410CX) | - - - | - | ·- | | |
| Optional 10-Gigabit Uplink Single | le CX4 Port Module (DEM-410CX) | - | - | √ | √ | √ |
| Single | , , | - | | | | |
| Switch | ch Fahric | | - | √ | √ | √ |
| | on rabite | 24Gbps | 24Gbps | 108Gbps | 108Gbps | 136Gbps |
| Packe | et Forwarding Rate | 17.86Mpps | 17.86Mpps | 80.36Mpps | 80.36Mpps | 101.19Mpps |
| Packe | ket Buffer | 2MB | 2MB | 2MB | 2MB | 2MB |
| MAC | Address Table | 16K Entries | 16K Entries | 16K Entries | 16K Entries | 16K Entries |
| Performance IP v4/ | l/v6 Routing Table | 12K Entries | 12K Entries | 12K Entries | 12K Entries | 12K Entries |
| | Routing Table | 6K Entries | 6K Entries | 6K Entries | 6K Entries | 6K Entries |
| IP v4 | Host Table | 8K Entries | 8K Entries | 8K Entries | 8K Entries | 8K Entries |
| IP v6 | 6 Host Table | 4K Entries | 4K Entries | 4K Entries | 4K Entries | 4K Entries |
| Jumb | bo Frame Size | 9,216 Bytes | 9,216 Bytes | 9,216 Bytes | 9,216 Bytes | 9,216 Bytes |
| Powe | er Supply | 100 to 120VAC, 200 to 240VAC, 50/60Hz, Internal Power Supply | | | | |
| Power | er Consumption (Max.) | 45.0 Watts | 50.0 Watts | 94.8 Watts | 77.0 Watts | 136.7 Watts |
| Option | onal Redundant Power Supply | DPS-200 | DPS-500 | DPS-500 | DPS-500 | DPS-500 |
| Heat | Dissipation | 153.55 BTU/Hr | 170.61 BTU/Hr | 323.48 BTU/Hr | 262.74 BTU/Hr | 466.45 BTU/Hr |
| Acous | ustic | <52.1dB | <51.1dB | <51.6dB | <51.3dB | <48.1dB |
| Dimer | ensions | 441 x 309 x 44 mm 441 x 389 x 44 mm | | | | |
| Size | | 19-Inch Rack-Mount Width, 1U Height | | | | |
| Weig | ght (Without Optional Module) | 3.7 kg | 5.0 kg | 5.5 kg | 5.5 kg | 5.7 kg |
| Physical/Environmental Opera | rating Temperature | 0° to 40°C | 0° to 40°C | 0° to 40°C | 0° to 40°C | 0° to 40°C |
| • | age Temperature | -40° to 70°C | -40° to 70°C | -40° to 70°C | -40° to 70°C | -40° to 70°C |
| Opera | rating Humidity | 10% to 90% RH | 10% to 90% RH | 10% to 90% RH | 10% to 90% RH | 10% to 90% RH |
| Stora | age Humidity | 5% to 90% RH | 5% to 90% RH | 5% to 90% RH | 5% to 90% RH | 5% to 90% RH |
| EMI | | FCC Class A, CE, C-Tick,VCCI | | | | |
| Safet | ty | cUL, CB | cUL, CB | cUL, CB | cUL, CB | cUL, CB |
| MTBF | • | 402,111 hours | 342,646 hours | 287,631 hours | 289,946 hours | 246,838 hours |
| 3rd Pa | Party Certification | MEF 9,14 | MEF 9,14 | MEF 9,14 | MEF 9,14 | MEF 9,14 |















Technical Specifications

Stackability

- Virtual Stacking Support
 D-Link Single IP Management v1.6
 Up to 32 devices per virtual stack
- Up to 20G stacking bandwidthPhysical stacking
- Support Duplex Chain/ Duplex Ring topology
 Up to 40G bandwidth
- Up to 12 units per stack
- Support backup masterAllows trunking or mirroring to span multiple units of the stack

L2 Features

- MAC Address Table: 16KFlow Control

- Flow Control
 302.3x Flow Control
 HOL Blocking Prevention
 Jumbo Frame up to 9,216 Bytes
 IGMP snooping
 IGMP v1/v2/v3 Snooping
 Support 1K Groups
 IGMP Snooping Fast Leave
 Host-Based IGMP Fast Leave*
 MLD Snooping
 MID v1 Spooping

- MLD v1 Snooping
- Support 1K Groups

 MLD Snooping Fast Leave
- Spanning Tree 802.1D STP
- 802.1w RSTP
- 802.1s MSTP
- Per port / per device BPDU filtering
- Root Restriction*
 Loopback Detection
- 802.3ad Link Aggregation
- Max. 32 Groups per device

 8 Gigabit ports or 2 10G ports per group
- Port Mirroring: ■ One-to-One
- Many-to-One Flow-based Mirroring
- **RSPAN**
- L2 Protocol Tunneling

- VLAN Group
- Max. 4K Static VLAN Groups Max. 255 Dynamic VLAN Groups 802.1Q Tagged VLAN
- 802.1v Protocol VLAN
- Double VLAN (Q-in-Q)

 Port-based Q-in-Q
- Selective Q-in-Q
- MAC-based VLAN *

- L3 Features
 256 IP interfaces VRRP
- IPv6 Tunneling *
- Static ■ ISATAP
- GRE
- 6to4
- IPv6 Ready Phase 1/2Proxy ARP
- Gratuitous ARP

L3 Routing

- 12K hardware routing entries shared by IPv4/v6
- Max. 12K IPv4 routes
 Max. 6K IPv6 routes
- 8K hardware L3 forwarding entries shared by IPv4/v6 ■ Max. 8K IPv4 entries
- Max. 4K IPv6 entries
- 256 static routing entries for IPv4, 128 entries
- Supports ECMP / WCMP Policy-based Route RIP v1/v2 RIPng (IPv6) * OSPF

- OSPF v2

- OSFF V2OSPF v3 (IPv6)OSPF Passive InterfaceStub/NSSA Area
- OSPF Equal Cost Route
- BGP v4

Multicasting

- 1K hardware multicast groups
- PIM-DM
- PIM-SM PIM Sparse-Dense Mode DVMRP v3 IGMP v1/v2/v3
- QoS (Quality of Service)
 802.1p Class of Service (CoS)
- 8 queues
- Queue Handling
- Strict
- Weighted Round Robin (WRR) Strict +WRR
- CoS Based on
- Switch Port
- VLAN ID 802.1p Priority Queues MAC Address
- IPv4/v6 Address
- DSCP
- Protocol Type IPv6 Traffic Class
- IPv6 Flow Label TCP/UDP Port
- User-defined Packet Content
- Support Following Actions for Flows
 Remark 802.1p Priority Tag
- Remark TOS/DSCP Tag
- Bandwidth Control
- Flow Statistics Committed Information Rate (CIR), min. granularity 1Kbps
- Bandwidth Control
- Port-based (Ingress/Egress, min. granularity
- Flow-based (Ingress, min. granularity 64Kbps)
 Time-based QoS

ACL (Access Control List)

- Up to 1792 access rulesACL Based on
- 802.1p Priority VI AN ID
- MAC Address
- Ether Type IPv4/v6 Address
- DSCP
- Protocol Type TCP/UDP Port Number
- IPv6 Traffic Class IPv6 Flow Label
- **User-Defined Packet Content**
- ACL Statistics
- Time-based ACL

- Security
 SSH v1/v2
- SSI v1/v2/v3
- Port Security up to 16 MAC addresses per port Broadcast/Multicast/Unicast Storm Control

- Traffic Segmentation
 IP-MAC-Port Binding

 ARP Packet Inspection
- IP Packet Inspection

- DHCP Snooping
 DHCPv6 and NDP Snooping *
 Support up to 500 Address Binding Entries per Device
 D-Link Safeguard Engine

- DHCP Server Screening
 CPU Interface Filtering
 ARP Spoofing Prevention *
 BPDU Attack Protection *

- 802.1X
- Port-based Access Control
- Host-based Access ControlDynamic VLAN Assignment
- Web-based Access Control (WAC)
 Port-based Access Control
- Host-based Access Control
- Dynamic VLAN Assignment MAC-based Access Control (MAC)
- Port-based Access ControlHost-based Access Control Dynamic VLAN Assignment

- Microsoft NAP
- Support 802.1X NAP
 Support DHCP NAP
 Guest VLAN
- RADIUS and TACACS+ authentication for switch access
- 3-Level User Account

- Management
- Web-based GUICommand Line Interface (CLI)
- Telnet Server
- Telnet Client
- TFTP ClientZModem
- SNMP v1/v2c/v3SNMP Trap
- System Log
- RMON v1
 Support 1,2,3,9 Groups
- RMON v2
 Support ProbeConfig Group
- sFlow
- LLDPBootP/DHCP Client
- DHCP Auto-ConfigurationDHCP Relay
- DHCP Relay Option 60; 61* DHCP Relay Option 82
 DHCP Server
- Flash File System Multiple Images
- Multiple Configurations
- CPU Monitoring
 Debug Command *
 SNTP
 ICMPv6
- IPv6 Neighbor Discovery (ND) ■ DHCPv6 Client
- DHCPv6 Relay * DHCPv6 Servé

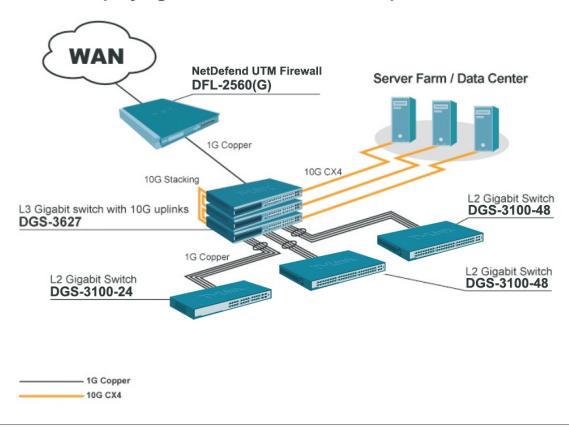
Cable Diagnostics *

- MIB/IETF Standard
- RFC1213 MIB-II
- RFC1493 Bridge MIB RFC1907 SNMPv2 MIB
- RFC2571~2576 SNMP MIBRFC1271, 2819 RMON MIB
- RFC2021 RMON v2 MIB
- RFC2665 Ether-like MIB RFC2668 MAU MIB
- RFC2674 802.1p MIB RFC2233, 2863 IF MIB
- RFC2618 RADIUS Authentication Client MIB RFC1724 RIP v2 MIB RFC1850 OSPF v2 MIB
- RFC2096 IP Forwarding Table MIB (CIDR)RFC2787 VRRP MIB
- RFC2932 IPv4 Multicast Routing MIB RFC2934 PIM MIB for IPv4
- RFC2620 RADIUS Accounting Client MIB
- RFC2933 IGMP MIB Ping MIB
- Traceroute MIB *
 D-Link Private MIB
- RFC768 UDP
 RFC783 TFTP
- RFC 791 IP RFC 792 ICMP RFC 793 TCP
- RFC 826 ARP
- RFC854 Telnet RFC951, 1542 BootP
- RFC2068 HTTP RFC2338 VRRP
- RFC2529, 3053, 3056 IPv6 Tunnel RFC2138 RADIUS ■ RFC2139 RADIUS Accounting
- RFC1492 TACACS RFC3176 sFlow RFC2598 DiffServ Expedited Forwarding

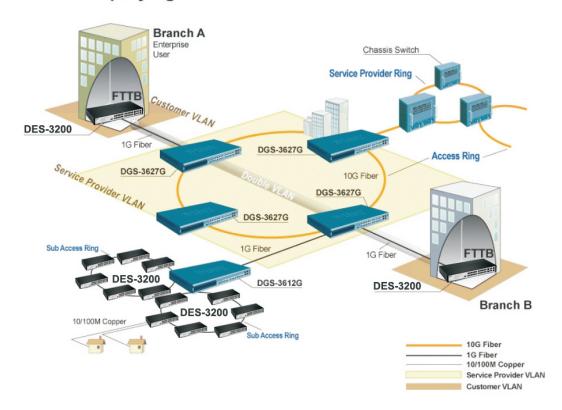
^{*} Function available in future firmware upgrade



Deploying the DGS-3600 in an Enterprise Network



Deploying the DGS-3600 in a Carrier Network







Optional Products

Optional Management Software

DV-600S -View 6.0 Network Management Software

Standard Edition

D-View 6.0 Network Management Software DV-600P Professional Edition

Optional 10Gbps Uplink Modules
DEM-410X 1-slot 10-Gigabit XFP uplink module

DEM-410CX 1-port 10-Gigabit CX4 uplink module

Optional 10Gbps XFP Transceivers
DEM-421XT XFP transceiver, 10GBASE-SR standard,

multi-mode fiber, max. distance 300 m, 3.3/5V

XFP transceiver, 10GBASE-LR standard, DEM-422XT single-mode fiber, max. distance 10 km,

DEM-423XT

XFP transceiver, 10GBASE-ER standard, single-mode fiber, max. distance 40 km,

3 3/5V

Optional 1Gbps SFP Transceivers

SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. DEM-310GT

distance 10km, 3.3V operating voltage SFP transceiver, 1000BASE-SX DEM-311GT

standard, multi-mode fiber, max.
distance 550m, 3.3V operating voltage

DEM-312GT2 SFP transceiver 1000BASE-SX standard,
multi-mode fiber, max. distance 2km,

DEM-314GT

3.3V operating voltage SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 50km, 3.3V operating voltage

SFP transceiver, 1000BASE-LX DEM-315GT

standard, single-mode fiber, max. distance 80km, 3.3V operating voltage

WDM SFP transceiver, 1000BASE-LX standard, single-mode fiber, max.

distance 10 km, 3.3V operating voltage, Tx wavelength 1550 nm, Rx wavelength

WDM SFP transceiver, 1000BASE-LX **DEM-330R**

standard, single-mode fiber, max. distance 10 km, 3.3V operating voltage

Tx wavelength 1310 nm, Rx wavelength

1550 nm **DEM-331T**

DEM-330T

WDM SFP transceiver, 1000BASE-LX

standard, single-mode fiber, max. distance 40 km, 3.3V operating voltage, Tx wavelength 1550 nm, Rx wavelength

1310 nm

WDM SFP transceiver 1000BASE-LX **DEM-331R**

standard, single-mode fiber, max. distance 40 km, 3.3V operating voltage, Tx wavelength 1310 nm, Rx

wavelength1550 nm SFP transceiver, 100BASE-FX standard, DEM-211

up to 2 km multi-mode fiber cable distance, 3.3V operating voltage

DEM-210

(for DGS-3612 and DGS-3612G only) SFP transceiver, 100BASE-FX standard, up to 15 km single-mode fiber cable

distance, 3.3V operating voltage (for DGS-3612 and DGS-3612G only)

100Base-BX, Wavelength Tx:1550nm Rx:1310nm,Single-mode, 20km DFM-220T

(for DGS-3612 and DGS-3612G only) 100Base-BX, Wavelength Tx:1310nm Rx:1550nm,Single-mode, 20km

(for DGS-3612 and DGS-3612G only)

Optional Redundant Power Supply

DEM-220R

Poland

Hungary

Headquarters

140-watt redundant power supply 140-watt DC redundant power supply DPS-500 DPS-500DC

DPS-800 2-slot redundant power supply chassis **DPS-900** 8-slot redundant power supply chassis

D-Link Worldwide Offices

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Rev. 10 (October 2009)