



High Performance Switching:

- + Dual 10-Gig stacking ports
- + Recoverable Ring or Star stacking architecture
- + Stacks up to 12 units per stack¹
- + RIPv1/v2, OSPF
- + DVMRP, PIM-DM, PIM-SM, VRRP
- + Optional Redundant Power Support
- + 802.3ad (Link Aggregation)
- + Spanning Tree Protocols: 802.1d, 802.1w, 802.1s
- + PIM-DM/SM

Network Management:

- + Command Line, Web, Telnet
- + SNMPv1/v2/v3, RMON (4 Groups)
- + Port Mirroring, Syslog
- + D-Link SIM (Single IP Management) Technology

Advanced Standards Based Enterprise Features:

- + 802.1p Priority (8 Queues)
- + L2/L3/L4 Quality of Service
- + L2/L3/L4 Access Control Lists (ACL)
- + 802.1x (Port Based Authentication)
- + 802.1x (MAC Based Authentication)
- + 802.1q VLANs (Up to 4000 Groups)
- + IGMP Snooping v1/v2/v3
- + SSH2, SSL, TACACS+, RADIUS
- + Access Control List (ACL)

24-Port 10/100/1000 with (4) Combo SFP Ports, 10-Gig Stacking

Overview

D-Link's xStack™ Series is a set of "Next Generation" high performance stackable switches that deliver high scalability, wire-speed Gigabit performance, high availability, integrated 10-Gigabit stacking, redundant power option, and support for stacking in a "ring" or "star" topology (requires DGS-3324SRi as stacking master). The DGS-3324SR blends many features typically found in more expensive chassis based solutions with the price and flexibility of a stackable switch. When stacked in a ring configuration, it provides up to 384 Gigabit ports. It also stacks with the other xStack™ Series switches including the DGS-3324SRi, DXS-3350SR, and DXS-3326GSR to provide unprecedented flexibility in a switch stack environment.

Performance

The xStack™ DGS-3324SR is a 24-Port 10/100/1000BASE-T Managed Stackable Multilayer Switch with (4) combo ports supporting SFP transceivers. It has an 88Gbps switching capacity and supports dual integrated 10-Gigabit stacking ports for up to 40Gbps of full-duplex stacking bandwidth.

High Availability

Its architecture supports stacking of up to 12 units¹ using the integrated rear 10-Gig stacking ports in a "Shortest-Path, Fail-Safe" ring configuration. Each unit also supports an optional redundant power supply (DPS-500). Other features include support for 802.3ad Link Aggregation, 802.1d Spanning Tree, 802.1w Rapid Spanning Tree, and 802.1s Multiple Spanning Tree for increased network reliability and availability.

Network Management

An extensive set of network management features is supported including console CLI, telnet, web, SNMPv1/v2/v3, RMON, TFTP, Port Mirroring, BootP, and DHCP. The switch can also be easily managed using D-Link's SIM (Single IP Management) Clustering technology for a virtual stack of up to 32 switches. It also provides a variety of advanced traffic management options including 802.1x, Bandwidth Control, Broadcast Rate Limiting, and support for IGMP Snooping v1/v2/v3.

Advanced Enterprise Features

The xStack™ DGS-3324SR implements a robust and consistent set of QoS/CoS, VLAN, and Security features. It supports 8 priority queues for 802.1p/ToS/DiffServ, with classification and marking based on MAC SA/DA, IP SA/DA, and/or TCP/UDP port numbers. Layer 3 dynamic routing protocols include RIPv1/v2, OSPFv2, PIM-DM, PIM-SM, DVMRP, and VRRP. Security features include 802.1x Port Based Authentication 802.1x MAC Based Authentication, and Access Control Lists based on MAC address, IP address, TCP/UDP port numbers, and IPv6 address and traffic class. The DGS-3324SR also has extensive support for GARP/GVRP, 802.1q, 802.1v IPv6 VLAN, and port based VLANs for up to 4000 groups.

The xStack™ DGS-3324SR is the latest example of D-Link's continued commitment to our channel partners and customers to be the industry leader in delivering cost-effective, reliable, high performance, feature-rich switches.



24-Port 10/100/1000 with (4) Combo SFP Ports, 10-Gig Stacking

Technical Specifications

Product/Performance Specifications

DGS-3324SR	(24) ports 10/100/1000Base-T with (4) combo SFP/mini-GBICs and (2) 10-Gigabit stacking ports
Max Units in a stack	Up to 12 units per stack (depending on switch model and configuration)
MAC Address Table Size	16K
Switch Fabric	88Gbps
802.1p Priority Queues	8 queues per port
Jumbo Frames	Up to 9,216 bytes
Rate Limiting	down to 1MB
802.3ad Link Aggregation	Up to 32 Groups / 8 ports per group
VLAN Groups	Up to 4K
L3 Host IP Table	Up to 3K entries
IP Multicast Table	Up to 256 addresses

Interface Options

RJ-45	10BASE-T, 100BASE-TX, 1000BASE-T
SFP/mini-GBIC	Supports Standard SFP transceivers (LC connector)
Stacking Ports	Dual 10-Gigabit stacking ports
RPSU	Redundant Power Supply via optional DPS-500

Network Management

In Band & Out of Band Configuration	Telnet, CLI/Console, RMON, Web-based HTTP, SNMP v1/2/3, SYSLOG, Port Mirroring, TFTP Client, BootP Client, DHCP Client, BootP/DHCP Relay agent, DNS Relay, SSH, SSL, Password enabled, TACACS+ Authentication, RADIUS Authentication, Remote Upgrade of PROM code, Traffic Segmentation, Port Security, Web GUI Traffic Monitoring, Web MAC address Browsing, SNTIP, Port Description, CPU Utilization Monitoring, Dual Image support, SNMP Trap on MAC notification
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Network Protocols & Standards

QoS / CoS Classification based on	802.1p priority, MAC SA/DA, ToS priority, IP address, TCP/UDP port, DSCP, IPv6 address, IPv6 Flow label, IPv6 traffic class
Spanning Tree	802.1D Spanning Tree, 802.1w Rapid Spanning Tree, 802.1s Multiple Spanning Tree
VLANs	802.1Q support, GARP/GVRP, Max number of VLANs 4K, Static VLANs up to 4K, Dynamic VLANs, up to 255, 802.1v
IP Multicast	IGMP Snooping, IGMP Snooping fast leave
RMON	4 Groups
Port Configuration / Monitoring	Auto Negotiation, Port Mirroring, Broadcast Storm Control
Security	802.1x Port & MAC based Access Control, SSH, SSL, TACACS/TACACS+, RADIUS, Cisco-like Port Security
Access Control Lists based on	MAC Address, VLAN, IP address, Protocol Type, TCP/UDP port, 802.1p, DSCP, Port, TCP/UDP payload, IPv6 address, IPv6 traffic class, IPv6 flow control
L3 Management functions	RIP I/II, OSPF, IPv4 Routing, IP Fragmentation support, Multiple IP interface per VLAN, floating static route, VRRP, Up to 256 static routes, Up to 50 IP interfaces, IGMPv2, IGMPv3, DVMRP, PIM DM, PIM SM



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Electrical & Emissions

Emissions	CE Mark, FCC Class A
Power Supply	100-120, 200-240VAC, 50/60 Hz Internal Universal Power Supply
Power Consumption	90W

Safety Agency Certifications

Safety	CSA International
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Physical & Environmental

Dimensions	441 x 207 x 44mm (17.36 x 8.15 x 1.73 in) 19 inch rack mount 1RU high
Weight	6.94lbs (3.15kg)
Temperature	Operating: 32°F to 104°F (0°C to 40°C) Storage: -13°F to 131°F (-25°C to 55°C)
Humidity	5 - 95% RH non-condensing

Warranty & Support Information

Warranty	Limited Lifetime Warranty
Support	Free Technical Support

Ordering Information

Part Number	Description
DGS-3324SR	Managed Stackable Multilayer Switch (24) 10/100/1000 ports with 4 combo SFP slots and (2) 10-Gig stacking ports. Includes DEM-CB50 50cm 10-Gig stacking cable.
DPS-500	Optional Redundant Power Supply Unit
DPS-800	Optional 2-Slot RPSU Rack Mount Chassis
DEM-310GT	1000Base-LX SFP/mini-GBIC, up to 10km (singlemode) or up to 550m (multimode)
DEM-311GT	1000Base-SX SFP/mini-GBIC, up to 550m (multimode)
DEM-CB50	50cm 10-Gig Stacking Cable
DEM-CB100	100cm 10-Gig Stacking Cable

¹ Maximum number of units in a stack may vary depending on model and configuration.

For more information, please contact your D-Link authorized reseller or visit us at <http://www.dlink.com>. For the latest firmware updates, product manuals, and support information, please visit <http://support.dlink.com>. Authorized D-Link business partners should visit our exclusive partner site at <http://partners.dlink.com>.