






Managed L3 Gigabit Switches

X-stack family					
Models	DGS-3324SR	DGS-3324SRi	DXS-3350SR	DXS-3326GSR	DGS-3312SR
Description	24 1000BASE-T with 4 combo SFP ports L3 Switch	24 1000BASE-T with 8 combo SFP ports L3 Switch	48 1000BASE-T with 4 combo SFP ports and one expansion slot for 2-port 10GE XFP uplink module L3 Switch	24 SFP with 4 combo 1000BASE-T ports and one expansion slot for 2-port 10GE XFP uplink module L3 Switch	4 Combo 1000BASE-T & SFP ports and 2 expansion slots L3 Switch
Stackable	Yes (Up to 12 devices)	Yes (Up to 7 devices)	Yes (Up to 12 devices)	Yes (Up to 12 devices)	No
Stacking bandwidth	40Gbps [Ring], 120Gbps [Star]	120Gbps	40Gbps [Ring], 120Gbps [Star]	40Gbps [Ring], 120Gbps [Star]	-
Stacking topology	Ring; Or Star with DGS-3324SRi	Star	Ring; Or Star with DGS-3324SRi	Ring; Or Star with DGS-3324SRi	-
Combo style	Either 4 1000BASE-T or SFP	Either 8 1000BASE-T or SFP	Either 4 1000BASE-T or SFP	Either 4 1000BASE-T or SFP	Either 4 1000BASE-T or SFP
Optional 10Gbps XFP Uplink Capability	No	No	Yes	Yes	No
Switching Capacity	88Gbps	168Gbps	176Gbps	128Gbps	24Gbps
64-byte Packet Forwarding rate	65.5Mpps	125Mpps	131Mpps	95Mpps	17.9Mpps
MAC address	16K	16K	16K	16K	16K
Jumbo Frame Support	Yes (9216Bytes)	Yes (9216Bytes)	Yes (9216Bytes)	Yes (9216Bytes)	9K
Packet buffer	2MB	2MB	4MB	2MB	1MB
Flash Memory	16MB	16MB	16MB	16MB	6MB
L2 Features					
IGMP snooping	Yes	Yes	Yes	Yes	Yes
802.1D Spanning tree	Yes	Yes	Yes	Yes	Yes
802.1w Rapid Spanning Tree	Yes	Yes	Yes	Yes	Yes
802.1s Multiple STP	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RIII)
802.3ad Link Aggregation [ports per group/groups per device]	Yes 32 groups; 8 ports per group	Yes 32 groups; 8 ports per group	Yes 32 groups; 8 ports per group	Yes 32 groups; 8 ports per group	Yes 6 groups; 8 ports per group
LACP	Yes	Yes	Yes	Yes	Yes
Trunking Across Stack	Yes	Yes	Yes	Yes	No
Port mirroring	Yes	Yes	Yes	Yes	Yes
Broadcast storm control	Yes	Yes	Yes	Yes	Yes
VLAN					
802.1Q	Yes	Yes	Yes	Yes	Yes
VLAN Group [MAX static/ dynamic]	4k/ 255	4k/ 255	4k/ 255	4k/ 255	64/ 255
GVRP support	Yes	Yes	Yes	Yes	Yes
L3 Features					
IGMP	Yes	Yes	Yes	Yes	Yes
IPv4 Support	Yes	Yes	Yes	Yes	Yes
IPv6 Support	Yes (RIII) (Note1)	Yes (RIII) (Note1)	Yes (RII) (Note1)	Yes (RII) (Note1)	No
IP entries	4K	4K	4K	4K	2K
IP Static Routing	Yes	Yes	Yes	Yes	Yes
RIP I/II	Yes	Yes	Yes	Yes	Yes
OSPF	Yes	Yes	Yes	Yes	Yes
PIM-DM	Yes	Yes	Yes	Yes	Yes
PIM-SM	Yes (RIII)	Yes (RIII)	Yes (RII)	Yes (RII)	No
DVMRP	Yes	Yes	Yes	Yes	Yes
VRRP	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RII)
BGP	No	No	No	No	No
Quality Of Service					
Priority queues number	8	8	8	8	8
Based on Port	Yes	Yes	Yes	Yes	Yes
Based on MAC DA/SA	Yes	Yes	Yes	Yes	Yes
802.1p support	Yes	Yes	Yes	Yes	Yes
Based on TOS	Yes	Yes	Yes	Yes	Yes
DSCP	Yes	Yes	Yes	Yes	Yes
Based on protocol type	Yes	Yes	Yes	Yes	Yes
Based on IP DA/SA	Yes	Yes	Yes	Yes	Yes
ACL (Access Control List)					
Based on Switch Port	Yes	Yes	Yes	Yes	Yes (RII)
Based on MAC address	Yes	Yes	Yes	Yes	Yes
Based on VLAN	Yes	Yes	Yes	Yes	Yes
Based on 802.1p priority	Yes	Yes	Yes	Yes	Yes
Based on DSCP	Yes	Yes	Yes	Yes	Yes
Based on IP address	Yes	Yes	Yes	Yes	Yes
Based on protocol type	Yes	Yes	Yes	Yes	Yes
Based on TCP/UDP port	Yes	Yes	Yes	Yes	Yes
Based on TCP/UDP Payload	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RII)
Network Access/Security Management					
RADIUS Authentication	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RII)
TACACS+ Authentication	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RII)
SSH	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RII)
SSL	Yes (RII)	Yes (RII)	Yes	Yes	Yes (RII)
Port Security function	Yes	Yes	Yes	Yes	Yes
802.1x Port-based Access Control	Yes	Yes	Yes	Yes	Yes
802.1x MAC-based Access Control	Yes (RII)	Yes (RII)	Yes	Yes	Yes
Bandwidth Control	Yes (Granularity: 1Mb)	Yes (Granularity: 1Mb)	Yes (Granularity: 1Mb)	Yes (Granularity: 1Mb)	Yes (Granularity: 1Mb)
Traffic segmentation	Yes	Yes	Yes	Yes	Yes

Management					
Single IP Management to Manage Whole Stack	Yes	Yes	Yes	Yes	No
D-Link SIM	Yes (R11)	Yes (R11)	Yes	Yes	Yes (R11)
Web-GUI	Yes	Yes	Yes	Yes	Yes
CLI	Yes	Yes	Yes	Yes	Yes
Telnet	Yes	Yes	Yes	Yes	Yes
TFTP	Yes	Yes	Yes	Yes	Yes
SNMP v1, v2c, v3	Yes	Yes	Yes	Yes	Yes
RMON	Yes (4 Groups)	Yes (4 Groups)	Yes (4 Groups)	Yes (4 Groups)	Yes (4 Groups)
BootP/DHCP client	Yes	Yes	Yes	Yes	Yes
BootP/DHCP Relay Agent	Yes	Yes	Yes	Yes	Yes
DNS Relay Agent	Yes	Yes	Yes	Yes	Yes
SNTP	Yes	Yes	Yes	Yes	Yes
SYSLOG	Yes	Yes	Yes	Yes	Yes
Web GUI Traffic Monitoring	Yes	Yes	Yes	Yes	Yes
Web MAC address Browsing	Yes	Yes	Yes	Yes	Yes
SNMP Trap on MAC Notification	Yes	Yes	Yes	Yes	Yes
Dual Image	Yes (R11)	Yes (R11)	Yes	Yes	No
Mechanical	1U	1U	1U	1U	1U
Dimensions	441 x 207 x 44 mm	441 x 207 x 44 mm	441 x 430 x 44 mm	441 x 430 x 44 mm	441 x 309 x 44 mm
Weight	3,15 kg	3,15 kg	6,41 kg	6,5 kg	4,4 kg
Modules					
DEM-310GT	Yes	Yes	Yes	Yes	
DEM-311GT	Yes	Yes	Yes	Yes	
DEM-340MG					Yes
DEM-340T					Yes
Optional Power Supply					
DPS-200					Yes
DPS-500	Yes	Yes	Yes	Yes	
DPS-900 Chassis	Yes	Yes	Yes	Yes	Yes
Image					
Model	DGS-3324SR	DGS-3324SRi	DXS-3350SR	DXS-3326GSR	DGS-3312SR

Note: 1. Support IPv6 Classification ,Prioritization & Redirection, not including IPv6 Routing

X-stack design



xStack™ - Ring (Bus) Architecture



xStack™ - Star Architecture

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