



















Layer 2 Unmanaged Switches

Layer 2 Unmanaged Fast Ethernet

									
Model	DES-1005D	DES-105	DES-1005P	DES-1008D	DES-108	DES-1008PA	DES-1016D	DES-1018MP	DES-1024D
Number of Fast Ethernet ports	5	5	5	8	8	8	16	16	24
Number of Gigabit ports								2	
Switching capacity	1 Gbps	1 Gbps	1 Gbps	1.6 Gbps	1.6 Gbps	1.6 Gbps	3.2 Gbps	1.6 Gbps	4.8 Gbps
PoE standards			802.3af			802.3af		802.3af	
PoE power budget			15.4 W			52 W		246.4 W	
PoE capable ports			Port 1, up to 15.4 W			Port 1-4, up to 15.4 W		Port 1-16, up to 15.4 W	
Desktop	•	•	•	•	•	•	•	•	•
Rackmountable							•		•
Metal enclosure		•	•		•	•	•	•	•
Fanless	•	•	•	•	•	•	•	•	•
MAC address	2K	2K	2K	1K	1K	1K	8K	8K	8K
802.1p QoS		• (Strict mode)	• (Strict mode)		• (Strict mode)		• (Strict mode)		• (Strict mode)
Number of QoS queues		2	4		2		2		2
D-Link Green	•	•	•	•	•	•	•	•	•
802.3az EEE	•	•	•	•	•	•	•	•	•

Layer 2 Unmanaged Gigabit

									
Model	DGS-1005D	DGS-105	DGS-1008D	DGS-108	DGS-1008P	DGS-1008MP	DGS-1016D	DGS-1024D	DGS-1026MP
Number of Gigabit ports	5	5	8	8	8	8	16	24	24
Number of Combo 1000BASE-T/SFP ports									2
Switching capacity	10 Gbps	10 Gbps	16 Gbps	16 Gbps	16 Gbps	16 Gbps	32 Gbps	48 Gbps	52 Gbps
PoE standards					802.3at	802.3af, 802.3at			802.3af, 802.3at
PoE power budget					68 W	140 W			370 W
PoE capable ports					Ports 1-4, up to 30 W	Ports 1-8, up to 30 W			Ports 1-24, up to 30 W
Desktop	•	•	•	•	•	•	•	•	•
Rackmountable							•	•	•
Metal enclosure		•	•	•	•	•	•	•	•
Fanless	•	•	•	•	•	•	•	•	•
MAC address	8K	2K	4K	8K	4K	8K	8K	8K	8K
Jumbo frame	9000 Bytes	9000 Bytes	9720 Bytes	9000 Bytes	9720 Bytes	9216 Bytes	9600 Bytes	9600 Bytes	9600 Bytes
802.1p QoS	• (Strict mode)	• (Strict mode)	• (Strict mode)	• (Strict mode)	• (Strict mode)		• (Strict mode)	• (Strict mode)	
Number of QoS queues	4	4	4	4	4		4	4	
Cable diagnostics	•	•	•	•	•	•	•	•	•
D-Link Green	•	•	•	•	•	•	•	•	•
802.3az EEE	•	•	•	•	•	•	•	•	•

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Fast Ethernet Smart Switches

Fast Ethernet Smart Managed



Model	DES-1100-16	DES-1100-24	DES-1210-08P	DES-1210-28	DES-1210-28P	DES-1210-52
Number of Fast Ethernet ports	16	24	8	24	24	48
Number of Gigabit ports				2	2	2
Number of Combo 1000BASE-T/ SFP ports				2	2	2
Number of SFP ports						
Switching capacity	3.2 Gbps	4.8 Gbps	1.6 Gbps	12.8 Gbps	12.8 Gbps	17.6 Gbps
PoE standards			802.3af		802.3af, 802.3at	
PoE power budget			72W		193W	
PoE capable ports			Port 1-8, up to 15.4W		Port 1-4, up to 30 W Port 5-24, up to 15.4 W	
Fanless	•	•	•	•	•	•
D-Link Green			•	•	•	•
802.3az EEE						
Virtual stacking (device)						
MAC address	8K	8K	8K	8K	8K	16K
802.1D STP, 802.1w RSTP, 802.1s MSTP			802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w
802.3ad link aggregation / port trunking	Static trunk	Static trunk	802.3ad	802.3ad	802.3ad	802.3ad
VLAN group (max static)	32	32	256	256	256	256
Port / MAC / protocol-based VLAN, GVRP	Port	Port				
Asymmetric VLAN			•	•	•	•
Auto Voice/Surveillance VLAN			•	•	•	•
IPV4/IPV6 routing table						
IP interfaces						
IPV6 Core Ready Logo Phase 2			•	•	•	•
Routing table size						
Static route for IPV4/IPV6						
Number of queues per port	2	2	4	4	4	4
CoS based on contents			•	•	•	•
Bandwidth control (min. granularity)	• (512Kbps)	• (512Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)
ACL (Ingress / Egress / VLAN-based)			• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)
Based on packet contents			•	•	•	•
SSH, SSL (v1/v2/v3)			SSL	SSL	SSL	SSL
Smart Binding			•	•	•	•
ARP spoofing			•	•	•	•
802.1X access control			•	•	•	•
RADIUS			•	•	•	•
SNMP (v1/v2c/v3), RMON v1			•	•	•	•
LLDP-MED			•	•	•	•
ICMPv6			•	•	•	•

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Gigabit Smart Switches

Gigabit Smart Managed

Model	DGS-1100-05	DGS-1100-05PD	DGS-1100-08	DGS-1100-08P	DGS-1100-10MP	DGS-1100-10MPP	DGS-1100-16	DGS-1100-18	DGS-1100-24	DGS-1100-24P	DGS-1100-26	DGS-1100-26MP
Number of Gigabit ports	5	5	8	8	8	8	16	16	24	24	24	24
Number of Combo 1000BASE-T/SFP ports												2
Number of SFP ports					2	2		2			2	
Switching capacity	10 Gbps	10 Gbps	16 Gbps	16 Gbps	20 Gbps	20 Gbps	32 Gbps	36 Gbps	48 Gbps	48 Gbps	52 Gbps	52 Gbps
PoE standards		802.3af		802.3af	802.3af, 802.3at	802.3af, 802.3at, 802.3bt draft, UPoE				802.3af, 802.3at		802.3af, 802.3at
Powered by PoE		*										
PoE power budget		18W with 802.3af / 8W with 802.3af input power		64 W	130 W	242 W				100 W		370 W
PoE capable ports		Port 1-2, up to 15.4 W		Port 1-8, up to 15.4 W	Port 1-8, up to 30 W	Port 1-6, up to 30 W / Port 7-8, up to 75 W				Port 1-12, up to 30 W		Port 1-24, up to 30 W
Fanless	*	*	*	*	*	*	*	*	*	*	*	*
Lightning protection					• (6kV)	• (6kV)						• (6kV)
D-Link Green	*	*	*	*	*	*	*	*	*	*	*	*
802.3az EEE	*	*	*	*	*	*	*	*	*	*	*	*
MAC address	8K	8K	8K	8K	16K	16K	8K	16K	8K	8K	16K	16K
802.1D STP, 802.1w RSTP, 802.1s MSTP												
802.3ad link aggregation / port trunking	Static trunk	Static trunk	Static trunk	Static trunk	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad
VLAN group (max static)	32	32	32	32	128	128	64	64	64	64	64	128
Port / MAC / protocol-based VLAN, GVRP	Port	Port	Port	Port	Port	Port	Port	Port	Port	Port	Port	Port
Asymmetric VLAN					*	*	*	*	*	*	*	*
Auto Voice/Surveillance VLAN	*	*	*	*	*	*	*	*	*	*	*	*
IPV4/IPV6 routing table												
IP interfaces												
IPV6 Core Ready Logo Phase 2												
Routing table size												
Static route for IPV4/IPV6												
Number of queues per port	4	4	4	4	4	4	4	4	4	4	4	4
CoS based on contents												
Bandwidth control (min. granularity)	• (8 Kbps)	• (8 Kbps)	• (8 Kbps)	• (8 Kbps)	• (8 Kbps)	• (8 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (8 Kbps)
Video Surveillance Mode					*	*						*
ONVIF Device Discovery					*	*						*
Video Surveillance Topology					*	*						*
Video Surveillance Device Information					*	*						*
ACL (Ingress / Egress / VLAN-based)												
Based on packet contents												
SSH, SSL (v1/v2/v3)												
Smart Binding												
Loopback Detection	*	*	*	*	*	*	*	*	*	*	*	*
ARP spoofing												
802.1X access control												
RADIUS server support												
SNMP (v1/v2c/v3), RMON v1												
LLDP-MED												
ICMPv6												

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Gigabit Smart Switches

Gigabit Smart Managed

Model	DGS-1210-08P	DGS-1210-16	DGS-1210-24	DGS-1210-24P	DGS-1210-48	DGS-1210-10	DGS-1210-10P	DGS-1210-20	DGS-1210-28	DGS-1210-28P	DGS-1210-28MP	DGS-1210-52	DGS-1210-52P	DGS-1210-52MP
Number of Gigabit ports	8	16	24	24	44	8	8	16	24	24	24	48	48	48
Number of Combo 1000BASE-T/SFP ports					4									
Number of SFP ports	2	4	4	4		2	2	4	4	4	4	4	4	4
Switching capacity	20 Gbps	32 Gbps	48 Gbps	56 Gbps	96 Gbps	20 Gbps	20 Gbps	40 Gbps	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps	104 Gbps
PoE standards	802.3af			802.3af, 802.3at		802.3af, 802.3at			802.3af, 802.3at	802.3af, 802.3at	802.3af, 802.3at		802.3af, 802.3at	802.3af, 802.3at
PoE power budget	45 W			85 W		78 W			193 W	370 W	370 W		193 W	370 W
PoE capable ports	Ports 1-8, up to 15.4 W			Ports 1-12, up to 30W		Ports 1-8, up to 30 W			Ports 1-4, up to 30W Ports 5-24, up to 15.4 W	Ports 1-24, up to 30W			Ports 1-8, up to 30 W Ports 9-24, up to 15.4 W	Ports 1-8, up to 30W Ports 9-48, up to 15.4 W
Fanless	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Smart fan														
D-Link Green	•	•	•	•	•	•	•	•	•	•	•	•	•	•
802.3az EEE	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MAC address	8K	8K	8K	8K	8K	16K	16K	16K	16K	16K	16K	16K	16K	16K
802.1D STP, 802.1w RSTP, 802.1s MSTP	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w
802.3ad link aggregation	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VLAN group (max static)	256	256	256	256	256	256	256	256	256	256	256	256	256	256
Port / MAC / protocol-based VLAN, GVRP						Port	Port	Port	Port	Port	Port	Port	Port	Port
Asymmetric VLAN	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Auto Voice/Surveillance VLAN	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IP interfaces														
IPv6 Core Ready Logo Phase 2						•	•	•	•	•	•	•	•	•
Routing table size														
Static route for IPv4/IPv6														
Number of queues per port	8	8	8	8	8	8	4	8	8	8	8	8	8	8
CoS based on contents	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Bandwidth control (min. granularity)	• (15 Kbps)	• (15 Kbps)	• (15 Kbps)	• (15 Kbps)	• (15 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)
ACL (Ingress / Egress / VLAN-based ACL)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)
Based on packet contents	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SSH, SSL (v1/v2/v3)	SSL	SSL	SSL	SSL	SSL	•	•	•	•	•	•	•	•	•
IP-MAC-port binding (IMPB)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ARP spoofing	•	•	•	•	•	•	•	•	•	•	•	•	•	•
802.1X access control	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RADIUS	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SNMP (v1/v2c/v3), RMON v1	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LLDP-MED	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ICMPv6	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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Gigabit and 10 Gigabit Smart Switches

		Gigabit Stackable Smart Managed with 10G Uplinks						10 Gigabit Smart Managed						
Model		DGS-1510-20	DGS-1510-28	DGS-1510-28P	DGS-1510-28X	DGS-1510-28XMP	DGS-1510-52	DGS-1510-52X	DXS-1100-10TS	DXS-1100-16SC	DXS-1210-10TS	DXS-1210-12TC	DXS-1210-16TC	
Hardware	Number of Gigabit ports	16	24	24	24	24	48	48	8		8	8	12	
	Number of 10GBASE-T ports													
	Number of Combo 1000BASE-T/SFP ports													
	Number of Combo 10GBASE-T/SFP+ ports									2		2	2	
	Number of SFP ports	2	2	2			2							
	Number of 10G SFP+ ports	2	2	2	4	4	2	4	2	14	2	2	2	
	Switching capacity	76 Gbps	92 Gbps	92 Gbps	128 Gbps	128 Gbps	140 Gbps	176 Gbps	200 Gbps	320 Gbps	200 Gbps	240 Gbps	320 Gbps	
	PoE standards			802.3af, 802.3at		802.3af, 802.3at								
	PoE power budget			193 W		370 W								
	PoE capable ports			Port 1-24, up to 30 W		Port 1-24, up to 30 W								
	Fanless													
	Smart fan	1	1	2	1	2	2	2	2	2	2	2	2	
	D-Link Green	•	•	•	•	•	•	•	•	•	•	•	•	
	802.3az EEE	•	•	•	•	•	•	•	•	•	•	•	•	
Physical stacking (device / max Bandwidth)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)						
Virtual stacking (device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)						
MAC address	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	
L2	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•	•	•	•	•	•	•	•	
802.3ad, 802.1AX link aggregation	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	•	•	802.3ad	802.3ad	802.3ad	
VLAN	VLAN group (max static)	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	4K	
Port / MAC / protocol-based VLAN, GVRP	Port, GVRP	Port, GVRP	Port, GVRP	Port, GVRP	Port, GVRP	Port, GVRP	Port, GVRP	Port, GVRP	Port	Port	Port, GVRP	Port, GVRP	Port, GVRP	
Asymmetric VLAN	•	•	•	•	•	•	•	•	•	•	•	•	•	
Auto Voice/Surveillance VLAN	•	•	•	•	•	•	•	•	•	•	•	•	•	
L3	IP interfaces	8	8	8	8	8	8	8			16	16	16	
IPv6 Core Ready Logo Phase 2	•	•	•	•	•	•	•	•	•	•	•	•	•	
Routing table size	128	128	128	128	128	128	128	128			768	768	768	
Static route for IPv4/IPv6	64 / 32	64 / 32	64 / 32	64 / 32	64 / 32	64 / 32	64 / 32	64 / 32			32 / 32	32 / 32	32 / 32	
OoS	Number of queues per port	8	8	8	8	8	8	8	8	8	8	8	8	
CoS based on contents	•	•	•	•	•	•	•	•	•	•	•	•	•	
Bandwidth control (min. granularity)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	
ACL	ACL (Ingress / Egress / VLAN-based ACL)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	
Based on packet contents	•	•	•	•	•	•	•	•	•	•	•	•	•	
Security	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•	•	SSL (v1/v2/v3)	SSL (v1/v2/v3)	•	•	•	
IP-MAC-port binding (IMPB)	•	•	•	•	•	•	•	•			•	•	•	
ARP spoofing	•	•	•	•	•	•	•	•	•	•	•	•	•	
AAA	802.1X access control	•	•	•	•	•	•	•			•	•	•	
RADIUS	•	•	•	•	•	•	•	•			•	•	•	
Management	SNMP (v1/v2c/v3), RMON v1	•	•	•	•	•	•	•	•	•	•	•	•	
LLDP-MED	•	•	•	•	•	•	•	•	•	•	•	•	•	
ICMPv6	•	•	•	•	•	•	•	•	•	•	•	•	•	

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Layer 2 Fast Ethernet Managed Switches

Layer 2 Fast Ethernet Managed










Model	DES-3200-10	DES-3200-18	DES-3200-28	DES-3200-28P	DES-3200-52
Number of Fast Ethernet ports	8	16	24	24	48
Number of Gigabit ports				2	
Number of Combo 1000BASE-T/SFP ports	1	1	2	2	2
Number of SFP ports	1	1	2		2
Switching capacity	5.6 Gbps	7.2 Gbps	12.8 Gbps	12.8 Gbps	17.6 Gbps
PoE standards				802.3af, 802.3at	
PoE power budget				188 W	
PoE capable ports				Ports 1-4, up to 30 W Ports 5-24, up to 15.4 W	
Fanless	•	•	•		
802.3az EEE	•	•	•	•	•
Virtual stacking (device)	• (32)	• (32)	• (32)	• (32)	• (32)
MAC address	16K	16K	16K	16K	16K
802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•
Ethernet ring protection switching (ERPS)	•	•	•	•	•
802.3ad, 802.1AX link aggregation	•	•	•	•	•
VLAN group (max static)	4K	4K	4K	4K	4K
Port / MAC / protocol-based VLAN, GVRP	•	•	•	•	•
Asymmetric VLAN					
Double VLAN (Q-in-Q)	•	•	•	•	•
ISM VLAN	•	•	•	•	•
Voice VLAN	•	•	•	•	•
IPv4/IPv6 routing table					
IP interfaces	2	2	2	2	2
IPv6 Ready Logo, IPv6 neighbour discovery (ND)	•	•	•	•	•
Static route for IPv4/IPv6					
Number of queues per port	8	8	8	8	8
CoS based on contents	•	•	•	•	•
Bandwidth control (min. granularity)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)
Time-based QoS	•	•	•	•	•
ACL (Ingress / Egress / VLAN-based ACL)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)
Based on packet contents	•	•	•	•	•
Time-based ACL	•	•	•	•	•
SSH, SSL (v1/v2/v3)	•	•	•	•	•
IP-MAC-port binding (IMPB)	•	•	•	•	•
ARP spoofing, BPDU attack protection	•	•	•	•	•
802.1X access control, Microsoft NAP	•	•	•	•	•
RADIUS/TACACS+ authentication	•	•	•	•	•
SNMP (v1/v2c/v3), RMON v1/v2	•	•	•	•	•
sFlow	•	•	•	•	•
LLDP-MED					
ICMPv6	•	•	•	•	•
802.3ah, 802.1ag, ITU-T Y.1731	802.3ah, 802.1ag	802.3ah, 802.1ag	802.3ah, 802.1ag	802.3ah, 802.1ag	802.3ah, 802.1ag

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Layer 2 Gigabit Managed Switches

Layer 2 Gigabit Managed

								
Model	DGS-3000-10TC	DGS-3120-24TC/SI	DGS-3120-24PC/SI	DGS-3120-24SC/SI	DGS-3120-48TC/SI	DGS-3120-48PC/SI	DGS-3120 EI	
Hardware	Number of Gigabit ports	8	20	20	44	44	See specific switch model	
	Number of Combo 1000BASE-T/SFP ports	2	4	4	8	4	See specific switch model	
	Number of SFP ports				16		See specific switch model	
	Number of optional 10G uplinks or stacking ports		2	2	2	2	See specific switch model	
	Switching capacity	20 Gbps	88 Gbps	88 Gbps	88 Gbps	136 Gbps	136 Gbps	See specific switch model
	PoE standards			802.3af, 802.3at			802.3af, 802.3at	See specific switch model
	PoE power budget			370 W (740 W with DPS-700 RPS)			370 W (740 W with DPS-700 RPS)	See specific switch model
	PoE capable ports			Ports 1-24, up to 30 W			Ports 1-48, up to 30 W	
	Physical stacking (device / max bandwidth)		• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)	• (6/40G)
	Virtual stacking (device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)
L2	MAC address	16K	16K	16K	16K	16K	16K	
	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•	•	
	Ethernet ring protection switching (ERPS)							
	802.3ad, 802.1AX link aggregation	802.3ad, 802.1AX	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	
VLAN	VLAN group (max static)	4K	4K	4K	4K	4K	4K	
	Port / MAC / protocol-based VLAN, GVRP	GVRP	•	•	•	•	•	
	Port-based double VLAN	•					•	
	Selective double VLAN	•						
	ISM VLAN	•	•	•	•	•	•	
L3	Voice VLAN	•	•	•	•	•	•	
	IPv4/IPv6 routing table						512 / 512	
	IPv4/IPv6 forwarding table						2K / 1K	
	IP interfaces						16	
	IPv6 Ready Logo, IPv6 neighbour discovery (ND)		•	•	•	•	•	
	Static route for IPv4/IPv6						512	
	RIP v1/v2, RIPvng							
QoS	Number of queues per port	8	8	8	8	8	8	
	CoS based on contents	•	•	•	•	•	•	
	Bandwidth control (min. granularity)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	
	Time-based QoS	•	•	•	•	•	•	
ACL	ACL (Ingress / Egress / VLAN-based)	• (Ingress)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	•	
	Based on packet contents	•	•	•	•	•	•	
	Time-based ACL	•	•	•	•	•	•	
Security	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•	
	IP-MAC-port binding (IMPB)	•					•	
	ARP spoofing, BPDU attack protection	•	•	•	•	•	•	
AAA	802.1X access control	•	•	•	•	•	•	
	Microsoft NAP support	•	•	•	•	•	•	
	RADIUS/TACACS+ authentication	•	•	•	•	•	•	
	SNMP (v1/v2c/v3), RMON v1/v2	•	•	•	•	•	•	
Management	sFlow	•					•	
	LLDP-MED	•	•	•	•	•	•	
	ICMPv6	•	•	•	•	•	•	
	802.3ah, 802.1ag, ITU-TY.1731	•					•	

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Layer 2+ Gigabit/ 10 Gigabit Managed Switches

	Layer 2+ Gigabit Managed					Layer 2+ 10 Gigabit Managed		
								
Model	DGS-3420-28TC	DGS-3420-28SC	DGS-3420-28PC	DGS-3420-52T	DGS-3420-52P	DXS-3400-24TC	DXS-3400-24SC	
Hardware	Number of Gigabit ports	20		20	48	48		
	Number of 10GBASE-T ports						20	
	Number of Combo 1000BASE-T/SFP ports	4	4	4				
	Number of Combo 10GBASE-T/SFP+ ports						4	
	Number of SFP ports		20					
	Number of 10G SFP+ ports	4	4	4	4	4		
	Switching capacity	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps	480 Gbps	480 Gbps
	PoE standards			802.3af, 802.3at		802.3af, 802.3at		
	PoE power budget			370 W (740 W with DPS-700 RPS)		370 W (740 W with DPS-700 RPS)		
	PoE capable ports			Ports 1-24, up to 30 W		Ports 1-48, up to 30 W		
L2	Physical stacking (device / max bandwidth)	• (12/40G)	• (12/40G)	• (12/40G)	• (12/40G)	• (12/40G)	• (4/80G)	
	Virtual stacking ((device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	
	MAC address	16K	16K	16K	16K	16K	48K	
	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•	•	
	Ethernet ring protection switching (ERPS)	•	•	•	•	•	•	
	802.3ad, 802.1AX link aggregation	•	•	•	•	•	• (802.1AX only)	
	VLAN group (max static)	4K	4K	4K	4K	4K	4K	
	Port / MAC / protocol-based VLAN, GVRP	•	•	•	•	•	•	
	Port-based / selective double VLAN	•	•	•	•	•	•	
	ISM / voice VLAN	•	•	•	•	•	•	
L3	DCB - 802.1Qbb, 802.1Qaz							
	IPv4/IPv6 routing table	1K / 512	1K / 512	1K / 512	1K / 512	1K / 512	4K / 1K	
	IPv4/IPv6 forwarding table	2K / 1K	2K / 1K	2K / 1K	2K / 1K	2K / 1K	32K / 16K	
	IP interfaces	256	256	256	256	256	256	
	IPv6 Ready Logo, IPv6 neighbour discovery (ND)	•	•	•	•	•	•	
	Static route for IPv4/IPv6	256	256	256	256	256	256 / 128	
	RIP v1/v2, RIPvng	•	•	•	•	•	•	
	Number of queues per port	8	8	8	8	8	8	
	CoS based on contents	•	•	•	•	•	•	
	Bandwidth control (min. granularity)	• (64Kbps)	• (1Kbps)	• (1Kbps)	• (1Kbps)	• (1Kbps)	• (64Kbps)	
ACL	Time-based QoS	•	•	•	•	•	•	
	ACL (Ingress / Egress / VLAN-based)	• (Ingress / Egress / VLAN-based)	• (Ingress / Egress / VLAN-based)	• (Ingress / Egress / VLAN-based)	• (Ingress / Egress / VLAN-based)	• (Ingress / Egress / VLAN-based)	• (Ingress / Egress / VLAN-based)	
	Based on packet contents	•	•	•	•	•	•	
	Time-based ACL	•	•	•	•	•	•	
	Security	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•
		IP-MAC-port binding (IMPB)	•	•	•	•	•	•
		ARP spoofing, BPDU attack protection	•	•	•	•	•	•
	Management / AAA	802.1X access control	•	•	•	•	•	•
		Microsoft NAP support	•	•	•	•	•	•
		RADIUS/TACACS+ authentication	•	•	•	•	•	•
SNMP (v1/v2c/v3), RMON v1/v2		•	•	•	•	•	•	
sFlow, LLDP-MED, ICMPv6		•	•	•	•	•	•	
802.3ah, 802.1ag, ITU-TY.1731	•	•	•	•	•	•		

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Layer 3 Managed Gigabit/10 Gigabit Switches

	Layer 3 Gigabit Managed					Layer 3 10 Gigabit Managed			
	Model	DGS-3630-28TC/SI	DGS-3630-28SC/SI	DGS-3630-52T/SI	DGS-3630 EI	DGS-3630 MI	DXS-3600-16S/SI	DXS-3600-32S/SI	DXS-3600 EI
Hardware	Number of Gigabit ports	20		48	See specific switch model	See specific switch model			
	Number of Combo 1000BASE-T/SFP ports	4	4		See specific switch model	See specific switch model			
	Number of SFP ports		20		See specific switch model	See specific switch model			
	Number of 10G SFP+ ports	4	4	4	See specific switch model	See specific switch model	8	24	See specific switch model
	Number of open slots						1	1	See specific switch model
	Switching capacity	128 Gbps	128 Gbps	176 Gbps	See specific switch model	See specific switch model	480 Gbps	960 Gbps	See specific switch model
	Physical stacking (device / max bandwidth)	• (9/80G)	• (9/80G)	• (9/80G)	• (9/80G)	• (9/80G)			• (4/480G)
Virtual stacking (device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)
Switch Resource Management	IP / LAN / L2 VPN modes	IP / LAN / L2 VPN modes	IP / LAN / L2 VPN modes						
L2	MAC address	Up to 68K	Up to 68K	Up to 68K	32K	32K	128K	128K	128K
	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•	•	•	•
	Ethernet protection switching (ERPS)	• (ERPSv2)	• (ERPSv2)	• (ERPSv2)	•	•	•	•	•
	802.3ad, 802.1AX link aggregation	•	•	•	•	•	802.1AX	802.1AX	802.1AX
	VLAN group (max static)	4K	4K	4K	4K	4K	4K	4K	4K
	Port / MAC / protocol-based VLAN, GVRP	•	•	•	•	•	•	•	•
	Port-based, selective double VLAN	•	•	•	•	•	•	•	•
VLAN	ISM, Voice VLAN	•	•	•	•	•	Super/ISM VLAN	Super/ISM VLAN	Super/ISM VLAN
	Super VLAN				•	•			
	DCB - 802.1Qbb, 802.1Qaz	802.1Qbb (10G port only)	802.1Qbb (10G port only)	802.1Qbb (10G port only)	802.1Qbb (10G port only)	802.1Qbb (10G port only)	•	•	•
L3	IPv4/IPv6 routing table	16K / 8K	16K / 8K	16K / 8K	16K / 8K	16K / 8K	16K / 8K	16K / 8K	16K / 8K
	IPv4/IPv6 forwarding table	32K / 16K	32K / 16K	32K / 16K	32K / 16K	32K / 16K	8K / 4K	8K / 4K	8K / 4K
	IP interfaces	256	256	256	256	256	256	256	256
	IPv6 Ready Logo, IPv6 neighbour discovery (ND)	• (pre-test only)	• (pre-test only)	• (pre-test only)	• (pre-test only)	• (pre-test only)			
	Static route for IPv4/IPv6	512 / 256	512 / 256	512 / 256	512 / 256	512 / 256	•	•	•
	IPv6 tunneling				•	•			•
	Multicasting	•	•	•	•	•			•
	PIM-DM/SM, DVMRPv3				•	•			•
	RIP v1/v2, RIPng	•	•	•	•	•			•
	OSPFv2/v3, BGP4/BGP4				•	•			• (OSPFv2/v3, BGP4)
MPLS	IS-IS, IS-ISv6					•			
	MPLS					•			•
	VPLS					•			•
QoS	Number of queues per port	8	8	8	8	8	8	8	8
	CoS based on contents	•	•	•	•	•	•	•	•
	Bandwidth control (min. granularity)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)
ACL	Single/two rate Three Colour Marker	•	•	•	•	•	•	•	•
	ACL (Ingress / Egress / VLAN-based)	•	•	•	•	•	•	•	•
Security	Based on packet contents	•	•	•	•	•	•	•	•
	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•	•	•
	IP-MAC-port binding (IMPB)	•	•	•	•	•	•	•	•
	ARP spoofing, BPDU attack protection	•	•	•	•	•	•	•	•
AAA	802.1X access control, Microsoft NAP	•	•	•	•	•	•	•	•
	RADIUS/TACACS+ authentication	•	•	•	•	•	•	•	•
Management	SNMP (v1/v2c/v3), RMON v1/v2, sFlow	•	•	•	•	•	• (excl. sFlow)	• (excl. sFlow)	• (excl. sFlow)
	LLDP-MED	•	•	•	•	•	•	•	•
	ICMPv6	•	•	•	•	•	•	•	•
	802.3ah, 802.1ag, ITU-T.Y.1731	•	•	•	•	•	•	•	•

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