










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
DIP switch (Energy-Efficient Ethernet (EEE)/Flow Control/Port Isolation and Storm Control)							•	•	
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	10,000 Bytes	10,000 Bytes	9600 Bytes
802.1p QoS	• (Strict mode)	• (Strict mode)	• (Strict mode)	• (Strict mode)	• (Strict mode)		•	•	•
Number of QoS queues	4	4	4	4	4		8	8	
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	
Hardware	Number of Gigabit ports	5	5	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	•	•	•	•	•	•	•	•	•	•	•	•	
L2	MAC address	8K	8K	8K	8K	16K	16K	8K	16K	8K	8K	16K	
	802.1D STP, 802.1w RSTP, 802.1s MSTP												
VLAN	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	
	VLAN group (max static)	32	32	32	32	128	128	64	64	64	64	128	
	Port / MAC / protocol-based VLAN, GVRP	Port	Port	Port	Port	Port	Port	Port	Port	Port	Port	Port	
	Asymmetric VLAN					•	•	•	•	•	•	•	
L3	Auto Voice/Surveillance VLAN	•	•	•	•	•	•	•	•	•	•	•	
	IPV4/IPV6 routing table												
	IP interfaces												
	IPV6 Core Ready Logo Phase 2												
	Routing table size												
QoS	Static route for IPv4/IPv6												
	Number of queues per port	4	4	4	4	4	4	4	4	4	4	4	
Surveillance Mode	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)	• (8 Kbps)	
	Video Surveillance Mode					•	•					•	
	ONVIF Device Discovery					•	•					•	
ACL	Video Surveillance Topology					•	•					•	
	Video Surveillance Device Information					•	•					•	
Security	ACL (Ingress / Egress / VLAN-based)												
	Based on packet contents												
	SSH, SSL (v1/v2/v3)												
AAA	Smart Binding												
	Loopback Detection	•	•	•	•	•	•	•	•	•	•	•	
Management	ARP spoofing												
	802.1X access control												
	RADIUS server support												
Management	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-1210-10MP	DGS-1210-20	DGS-1210-26
Hardware	Number of Gigabit ports	8	16	24	24	44	8	8	8	16	24
	Number of Combo 1000BASE-T/SFP ports		4	4	4	4				4	
	Number of SFP ports	2					2	2	2		2
	Switching capacity	20 Gbps	32 Gbps	48 Gbps	56 Gbps	96 Gbps	20 Gbps	20 Gbps	20 Gbps	40 Gbps	52 Gbps
	PoE standards	802.3af, 802.3at			802.3af, 802.3at			802.3af, 802.3at	802.3af, 802.3at		
	PoE power budget	65 W			193 W			65 W	130 W		
	PoE capable ports	Ports 1-8, up to 30 W			Ports 1-24, up to 30W			Ports 1-8, up to 30 W	Ports 1-8, up to 30 W		
	Fanless	•	•			•	•	•	•	•	•
	Smart fan										
	D-Link Green	•	•	•	•	•	•	•	•	•	•
802.3az EEE	•	•	•	•	•	•	•	•	•	•	
L2	MAC address	8K	8K	8K	8K	8K	8K	8K	8K	8K	8K
	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	•	•	•	•	
	802.3ad link aggregation	•	•	•	•	•	•	•	•	•	
VLAN	VLAN group (max static)	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	Port
	Asymmetric VLAN	•	•	•	•	•	•	•	•	•	•
	Auto Voice/Surveillance VLAN	•	•	•	•	•	•	•	•	•	•
L3	IP interfaces	4	4	4	4	4	4	4	4	4	4
	IPv6 Core Ready Logo Phase 2						•	•	•	•	•
	Routing table size										
	Static route for IPv4/IPv6						124/50	124/50	124/50	124/50	124/50
QoS	Number of queues per port	8	8	8	8	8	8	4	4	8	8
	CoS based on contents	•	•	•	•	•	•	•	•	•	•
	Bandwidth control (min. granularity)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)
Surveillance Mode	Video Surveillance Mode	•	•	•	•	•	•	•	•	•	•
	ONVIF Device Discovery	•	•	•	•	•	•	•	•	•	•
	Video Surveillance Topology	•	•	•	•	•	•	•	•	•	•
	Video Surveillance Device Information	•	•	•	•	•	•	•	•	•	•
ACL	ACL (Ingress / Egress / VLAN-based ACL)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)
	Based on packet contents	•	•	•	•	•	•	•	•	•	•
Security	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•	•	•	•	•
	IP-MAC-port binding (IMPB)	•	•	•	•	•	•	•	•	•	•
	ARP spoofing	•	•	•	•	•	•	•	•	•	•
AAA	802.1X access control	•	•	•	•	•	•	•	•	•	•
	RADIUS	•	•	•	•	•	•	•	•	•	•
Management	Dual image	•	•	•	•	•	•	•	•	•	•
	SNMP (v1/v2c/v3), RMON v1	•	•	•	•	•	•	•	•	•	•
	LLDP-MED	•	•	•	•	•	•	•	•	•	•
	ICMPv6	•	•	•	•	•	•	•	•	•	•

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Gigabit Smart Switches

		Gigabit Smart Managed					Metro Ethernet			
Model		DGS-1210-28	DGS-1210-28P	DGS-1210-28MP	DGS-1210-52	DGS-1210-52P	DGS-1210-52MP	DGS-1210-20/ME	DGS-1210-28/ME	DGS-1210-28MP/ME
Hardware	Number of Gigabit ports	24	24	24	48	48	48	16	24	24
	Number of Combo 1000BASE-T/SFP ports	4	4				4			
	Number of SFP ports			4	4	4		4	4	4
	Switching capacity	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps	104 Gbps	40 Gbps	56 Gbps	56 Gbps
	PoE standards		802.3af, 802.3at	802.3af, 802.3at		802.3af, 802.3at	802.3af, 802.3at			802.3af, 802.3at
	PoE power budget		193 W	370 W		193 W	370 W			370 W
	PoE capable ports		Ports 1-24, up to 30W	Ports 1-24, up to 30W		Ports 1-8, up to 30W Ports 9-24, up to 15.4 W	Ports 1-48, up to 30W			Ports 1-24, up to 30W
	6kV Surge protection							All Gigabit Ethernet ports	All Gigabit Ethernet ports	All Gigabit Ethernet ports
	Fanless	•						•	•	
	Smart fan		•		•		•			•
D-Link Green	•	•	•	•	•	•	•	•	•	
802.3az EEE	•	•	•	•	•	•	•	•	•	
L2	MAC address	8K	8K	16K	16K	16K	8K	16K	16K	16K
	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	802.1D, 802.1w	802.1D, 802.1w	•	•	•	•
	802.3ad link aggregation	•	•	•	•	•	•	•	•	•
	ERPS						•	•	•	•
VLAN	VLAN group (max static)	256	256	256	256	256	256	256	256	256
	Port / MAC / protocol-based VLAN, GVRP	Port	Port	Port	Port	Port	Port	•	•	•
	Port-based Q-in-Q, ISM VLAN							•	•	•
	Asymmetric VLAN	•	•	•	•	•	•	•	•	•
Auto Voice / Surveillance VLAN	•	•	•	•	•	•	•	•	•	
L3	IP interfaces	4	4	1	1	1	4	4	4	4
	IPv6 Core Ready Logo Phase 2	•	•	•	•	•	•	•	•	•
	Routing table size									
QoS	Static route for IPv4/IPv6	124/50	124/50	64/32			124/50	64/32	64/32	64/32
	Number of queues per port	8	8	8	8	8	8	8	8	8
	CoS based on contents	•	•	•	•	•	•	•	•	•
Surveillance Mode	Bandwidth control (min. granularity)	• (16 Kbps)	• (16 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)	• (16 Kbps)	• (64 Kbps)	• (64 Kbps)	• (64 Kbps)
	Video Surveillance Mode	•	•	•			•			
	ONVIF Device Discovery	•	•	•			•			
	Video Surveillance Topology	•	•	•			•			
	Video Surveillance Device Information	•	•	•			•			
ACL	ACL (Ingress / Egress / VLAN-based ACL)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)
	Based on packet contents	•	•	•	•	•	•	•	•	•
Security	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•	•	•	•
	IP-MAC-port binding (IMPB)	•	•	•	•	•	•	•	•	•
	ARP spoofing	•	•	•	•	•	•	•	•	•
AAA	802.1X access control	•	•	•	•	•	•	•	•	•
	RADIUS	•	•	•	•	•	•	•	•	•
Management	Dual image	•	•	•			•			
	SNMP (v1/v2c/v3), RMON v1	•	•	•	•	•	•	•	•	•
	LLDP-MED	•	•	•	•	•	•	•	•	•
	ICMPv6	•	•	•	•	•	•	•	•	•
	802.3ah						•	•	•	

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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-1510-28XMPP	DGS-1510-52	DGS-1510-52X	DGS-1510-52XMPP	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	48			8	8	12	
	Number of 10GBASE-T ports									8		8	8	12	
	Number of Combo 1000BASE-T/SFP ports										2		2	2	
	Number of Combo 10GBASE-T/SFP+ ports														
	Number of SFP ports	2	2	2			2								
	Number of 10G SFP+ ports	2	2	2	4	4	2	4	4	2	14	2	2	2	
	Switching capacity	76 Gbps	92 Gbps	92 Gbps	128 Gbps	128 Gbps	140 Gbps	176 Gbps	176 Gbps	200 Gbps	320 Gbps	200 Gbps	240 Gbps	320 Gbps	
	PoE standards			802.3af, 802.3at			802.3af, 802.3at			802.3af, 802.3at					
	PoE power budget			193 W			370 W			370 W (740W with RPS)					
	PoE capable ports			Port 1-24, up to 30 W			Port 1-24, up to 30 W			Port 1-48, up to 30 W					
Fanless															
Smart fan	1	1	2	1	2	2	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)	• (6/40G)						
Virtual stacking (device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)						
L2	MAC address	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	16K	
	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	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	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	
QoS	Number of queues per port	8	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)	
	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 Gigabit Managed Switches

		Layer 2 Gigabit Managed											
Model		DGS-3000-10TC	DGS-3000-28LP	DGS-3000-28X	DGS-3000-28XMP	DGS-3000-52X	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	24	24	24	48	20	20	20	44	44	See specific switch model	
	Number of Combo 1000BASE-T/SFP ports	2					4	4	8	4	4	See specific switch model	
	Number of SFP ports		4						16			See specific switch model	
	Number of 10G SFP+ ports			4	4	4						See specific switch model	
	Number of optional 10G uplinks or stacking ports						2	2	2	2	2	See specific switch model	
	Switching capacity	20 Gbps	56 Gbps	128 Gbps	128 Gbps	176 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			802.3af, 802.3at			802.3af, 802.3at	See specific switch model	
	PoE power budget		193 W		370 W			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 1-24, up to 30 W			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)	
L2	Virtual stacking (device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	
	MAC address	16K	16K	16K	16K	16K	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	802.3ad	802.3ad	802.3ad	802.3ad	802.3ad	
	VLAN group (max static)	4K	4K	4K	4K	4K	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	16	16	16						16	
	IPv6 Ready Logo, IPv6 neighbour discovery (ND)						•	•	•	•	•	•	
	Static route for IPv4/IPv6		64 / 32	64 / 32	64 / 32	64 / 32						512	
	RIP v1/v2, RIPng												
	Number of queues per port	8	8	8	8	8	8	8	8	8	8	8	
	CoS based on contents	•	•	•	•	•	•	•	•	•	•	•	
	Bandwidth control (min. granularity)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	
ACL	Time-based QoS	•	•	•	•	•	•	•	•	•	•	•	
	ACL (Ingress / Egress / VLAN-based)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	• (Ingress / VLAN-based)	•	
	Based on packet contents	•	•	•	•	•	•	•	•	•	•	•	
	Time-based ACL	•	•	•	•	•	•	•	•	•	•	•	
	SSH, SSL (v1/v2/v3)	•	•	•	•	•	•	•	•	•	•	•	
	Security	IP-MAC-port binding (IMPB)	•	•	•	•	•	•	•	•	•	•	•
		ARP spoofing, BPDU attack protection	•	•	•	•	•	•	•	•	•	•	•
		802.1X access control	•	•	•	•	•	•	•	•	•	•	•
		Microsoft NAP support	•	•	•	•	•	•	•	•	•	•	•
	AAA	RADIUS/TACACS+ authentication	•	•	•	•	•	•	•	•	•	•	•
SNMP (v1/v2c/v3), RMON v1/v2		•	•	•	•	•	•	•	•	•	•	•	
sFlow		•	•	•	•	•	•	•	•	•	•	•	
LLDP-MED		•	•	•	•	•	•	•	•	•	•	•	
Management	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, RIPng	•	•	•	•	•	•	
	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-3630-28PC/SI	DGS-3630-28SC/SI	DGS-3630-52T/SI	DGS-3630-52PC/SI	DGS-3630 EI	DGS-3630 MI	DXS-3600-32S/SI	DXS-3600 EI	
Hardware	Number of Gigabit ports	20	20		48	48	See specific switch model	See specific switch model		
	Number of Combo 1000BASE-T/SFP ports	4	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	4	4	See specific switch model	See specific switch model	24	
	Number of open slots								1	
	Switching capacity	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps	See specific switch model	See specific switch model	960 Gbps	See specific switch model
	PoE standards		802.3af, 802.3at			802.3af, 802.3at				
	PoE power budget		370 W (740 W with RPS)			370 W (740 W with RPS)				
	PoE capable ports		Ports 1-24, up to 30 W			Ports 1-48, up to 30 W				
	Physical stacking (device / max bandwidth)	• (9/80G)	• (9/80G)	• (9/80G)	• (9/80G)	• (9/80G)	• (9/80G)	• (9/80G)	• (4/480G)	See specific switch model
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	IP / LAN / L2 VPN modes	IP / LAN / L2 VPN modes					
L2	MAC address	Up to 68K	Up to 68K	Up to 68K	Up to 68K	32K	32K	128K	128K	
	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•	•	•	•	
	Ethernet ring protection switching (ERPS)	• (ERPSv2)	• (ERPSv2)	• (ERPSv2)	• (ERPSv2)	• (ERPSv2)	•	•	•	
	802.3ad, 802.1AX link aggregation	•	•	•	•	•	•	802.1AX	802.1AX	
VLAN	VLAN group (max static)	4K	4K	4K	4K	4K	4K	4K	4K	
	Port / MAC / protocol-based VLAN, GVRP	•	•	•	•	•	•	•	•	
	Port-based, selective double VLAN	•	•	•	•	•	•	•	•	
	ISM, Super, Voice VLAN	ISM / Voice VLAN	ISM / Voice VLAN	ISM / Voice VLAN	ISM / Voice VLAN	ISM / Voice VLAN	•	ISM / Voice VLAN	Super / ISM VLAN	
L3	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)	802.1Qbb (10G port only)	802.1Qbb (10G port only)	•	
	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	32K / 16K	32K / 16K	8K / 4K	
	IP interfaces	256	256	256	256	256	256	256	256	
	Static route for IPv4/IPv6	512 / 256	512 / 256	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)	
QoS	IS-IS, IS-ISv6						•	•		
	MPLS, VPLS						•	•	•	
	Number of queues per port	8	8	8	8	8	8	8	8	
	CoS based on contents	•	•	•	•	•	•	•	•	
ACL	Bandwidth control (min. granularity)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	• (8Kbps)	
	Single/two rate Three Colour Marker	•	•	•	•	•	•	•	•	
	ACL (Ingress / Egress / VLAN-based)	•	•	•	•	•	•	•	•	
	Based on packet contents	•	•	•	•	•	•	•	•	
Security	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	•	•	•	•	•	•	•	•	
	SNMP (v1/v2c/v3), RMON v1/v2, sFlow	•	•	•	•	•	•	• (excl. sFlow)	• (excl. sFlow)	
Management	LLDP-MED	•	•	•	•	•	•	•	•	
	ICMPv6	•	•	•	•	•	•	•	•	
	802.3ah, 802.1ag, ITU-T Y.1731	•	•	•	•	•	•	•	•	

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