

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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Additional products continued overleaf

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
Hardware	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			•	•	•	•
L2	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
VLAN	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			•	•	•	•
L3	Auto Voice/Surveillance VLAN			•	•	•	•
	IPv4/IPv6 routing table						
	IP interfaces						
	IPv6 Core Ready Logo Phase 2			•	•	•	•
QoS	Routing table size						
	Static route for IPv4/IPv6						
	Number of queues per port	2	2	4	4	4	4
ACL	CoS based on contents			•	•	•	•
	Bandwidth control (min. granularity)	• (512Kbps)	• (512Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)	• (64Kbps)
	ACL (Ingress / Egress / VLAN-based)			• (Ingress)	• (Ingress)	• (Ingress)	• (Ingress)
Security	Based on packet contents			•	•	•	•
	SSH, SSL (v1/v2/v3)			SSL	SSL	SSL	SSL
	Smart Binding			•	•	•	•
	ARP spoofing			•	•	•	•
AAA	802.1X access control			•	•	•	•
	RADIUS			•	•	•	•
Management	SNMP (v1/v2c/v3), RMON v1			•	•	•	•
	LLDP-MED			•	•	•	•
ICMPv6				•	•	•	•

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Gigabit
Smart
Switches

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	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 802.3at / 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)	
L2	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													
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	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					*	*	*	*	*	*	*	*	
L3	Auto Voice/Surveillance VLAN	*	*	*	*	*	*	*	*	*	*	*	*	
	IPv4/IPv6 routing table													
	IP interfaces													
	IPv6 Core Ready Logo Phase 2													
QoS	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													
Surveillance Mode	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					*	*						*	
ACL	Video Surveillance Device Information					*	*						*	
	ACL (Ingress / Egress / VLAN-based)													
	Based on packet contents													
	SSH, SSL (v1/v2/v3)													
Security	Smart Binding													
	Loopback Detection	*	*	*	*	*	*	*	*	*	*	*	*	
	ARP spoofing													
	802.1X access control													
AAA	RADIUS server support													
	SNMP (v1/v2c/v3), RMON v1													
	Management	LLDP-MED												
		ICMPv6												

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Additional products continued overleaf

Gigabit
Smart
Switches

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	•	•	•	•	•	•	•	•	•	•
L2	802.3az EEE	•	•	•	•		•	•	•	•	•
	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	•	•	•	•	•
VLAN	802.3ad link aggregation	•	•	•	•	•	•	•	•	•	•
	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	•	•	•	•	•	•	•	•	•	•
L3	Auto Voice/Surveillance VLAN	•	•	•	•	•	•	•	•	•	•
	IP interfaces	4	4	4	4	4	4	4	4	4	4
	IPv6 Core Ready Logo Phase 2						•	•	•	•	•
	Routing table size										
QoS	Static route for IPv4/IPv6						124/50	124/50	124/50	124/50	124/50
	Number of queues per port	8	8	8	8	8	8	4	4	8	8
	CoS based on contents	•	•	•	•	•	•	•	•	•	•
Surveillance Mode	Bandwidth control (min. granularity)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 Kbps)	• (16 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)	• (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 Managed

Metro Ethernet

Additional products continued overleaf

Gigabit and
10 Gigabit
Smart Switches

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	DGS-1510-52XMP	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	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	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
	L2	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
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 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		*	*	*	*	*	*	*	*	*	*	*	*	*
L3	Auto Voice/Surveillance VLAN	*	*	*	*	*	*	*	*	*	*	*	*	*
	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
QoS	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
	Number of queues per port	8	8	8	8	8	8	8	8	8	8	8	8	8
	CoS based on contents	*	*	*	*	*	*	*	*			*	*	*
ACL	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 (Ingress / Egress / VLAN-based ACL)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)	• (VLAN)			• (VLAN)	• (VLAN)	• (VLAN)
Security	Based on packet contents	*	*	*	*	*	*	*	*			*	*	*
	SSH, SSL (v1/v2/v3)	*	*	*	*	*	*	*	*	SSL (v1/v2/v3)	SSL (v1/v2/v3)	*	*	*
	IP-MAC-port binding (IMPB)	*	*	*	*	*	*	*	*			*	*	*
	ARP spoofing	*	*	*	*	*	*	*	*	*	*	*	*	*
Management	802.1X access control	*	*	*	*	*	*	*	*			*	*	*
	RADIUS	*	*	*	*	*	*	*	*			*	*	*
	SNMP (v1/v2c/v3), RMON v1	*	*	*	*	*	*	*	*	*	*	*	*	*
	LLDP-MED	*	*	*	*	*	*	*	*	*	*	*	*	*
	ICMPv6	*	*	*	*	*	*	*	*	*	*	*	*	*

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Layer 2 Gigabit Managed Switches

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		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	
L2	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)	• (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	•	•	•	•	•	•	•	•	•	•	•
VLAN	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	•	•	•	•	•	•	•	•	•	•	•
	Voice VLAN	•	•	•	•	•	•	•	•	•	•	•
L3	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
QoS	RIP v1/v2, RIPvng											
	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	•	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•	•
Management	SNMP (v1/v2c/v3), RMON v1/v2	•	•	•	•	•	•	•	•	•	•	•
	sFlow	•	•	•	•	•						•
	LLDP-MED	•	•	•	•	•	•	•	•	•	•	•
	ICMPv6	•					•	•	•	•	•	•
802.3ah, 802.1ag, ITU-TY.1731		•	•	•	•	•						•

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Additional products continued overleaf

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	4
	Number of SFP ports		20					
	Number of 10G SFP+ ports	4	4	4	4	4		20
	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)	• (4/80G)
	Virtual stacking ((device)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)	• (32)
	MAC address	16K	16K	16K	16K	16K	48K	48K
	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•	•	•	•	•
	Ethernet ring protection switching (ERPS)	•	•	•	•	•	•	•
VLAN	802.3ad, 802.1AX link aggregation	•	•	•	•	•	• (802.1AX only)	• (802.1AX only)
	VLAN group (max static)	4K	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	4K / 1K
	IPv4/IPv6 forwarding table	2K / 1K	2K / 1K	2K / 1K	2K / 1K	2K / 1K	32K / 16K	32K / 16K
	IP interfaces	256	256	256	256	256	256	256
	IPv6 Ready Logo, IPv6 neighbour discovery (ND)	•	•	•	•	•	•	•
QoS	Static route for IPv4/IPv6	256	256	256	256	256	256 / 128	256 / 128
	RIP v1/v2, RIPvng	•	•	•	•	•	•	•
	Number of queues per port	8	8	8	8	8	8	8
	CoS based on contents	•	•	•	•	•	•	•
	Bandwidth control (min. granularity)	• (64Kbps)	• (1Kbps)	• (1Kbps)	• (1Kbps)	• (1Kbps)	• (64Kbps)	• (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)	• (Ingress / Egress / 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	•	•	•	•	•	•	•
Management / AAA	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 Gigabit Managed

Layer 3 10 Gigabit Managed

www.dlink.com
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