

# Unmanaged PoE Switches

|          |                               | Fast Ethernet                                                                     |                                                                                   |                                                                                    |                                                                                     | Gigabit                                                                             |                                                                                     |                                                                                     |
|----------|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|          |                               |  |  |  |  |  |  |  |
| Model    |                               | DES-1005P                                                                         | DES-1008PA                                                                        | DES-1018P                                                                          | DES-1018MP                                                                          | DGS-1008P                                                                           | DGS-1008MP                                                                          | DGS-1026MP                                                                          |
| Hardware | Number of Fast Ethernet ports | 5                                                                                 | 8                                                                                 | 16                                                                                 | 16                                                                                  | 8                                                                                   | 8                                                                                   | 24                                                                                  |
|          | Number of Gigabit ports       |                                                                                   |                                                                                   | 2                                                                                  | 2                                                                                   |                                                                                     |                                                                                     | 2                                                                                   |
|          | Switching capacity            | 1 Gbps                                                                            | 1.6 Gbps                                                                          | 1.6 Gbps                                                                           | 1.6 Gbps                                                                            | 16 Gbps                                                                             | 16 Gbps                                                                             | 52 Gbps                                                                             |
|          | PoE standards                 | 802.3af                                                                           | 802.3af                                                                           | 802.3af                                                                            | 802.3af                                                                             | 802.3af                                                                             | 802.3af, 802.3at                                                                    | 802.3af, 802.3at                                                                    |
|          | PoE power budget              | 15.4 W                                                                            | 52 W                                                                              | 80 W                                                                               | 246.4 W                                                                             | 52 W                                                                                | 140 W                                                                               | 370 W                                                                               |
|          | PoE capable ports             | Port 1, up to 15.4 W                                                              | Port 1-4, up to 15.4 W                                                            | Port 1-8, up to 15.4 W                                                             | Port 1-16, up to 15.4 W                                                             | Ports 1-4, up to 15.4 W                                                             | Ports 1-8, up to 30 W                                                               | Ports 1-24, up to 30 W                                                              |
|          | Desktop                       | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|          | Rackmountable                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |
|          | Metal enclosure               | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|          | Fanless                       | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
|          | MAC address                   | 2K                                                                                | 1K                                                                                | 8K                                                                                 | 8K                                                                                  | 4K                                                                                  | 8K                                                                                  | 8K                                                                                  |
|          | Jumbo frame                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 9720 Bytes                                                                          | 9216 Bytes                                                                          | 9600 Bytes                                                                          |
|          | 802.1p QoS                    | • (Strict mode)                                                                   |                                                                                   |                                                                                    |                                                                                     | • (Strict mode)                                                                     |                                                                                     |                                                                                     |
|          | Number of QoS queues          | 4                                                                                 |                                                                                   |                                                                                    |                                                                                     | 4                                                                                   |                                                                                     |                                                                                     |
|          | Cable diagnostics             |                                                                                   |                                                                                   |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
|          | D-Link Green                  | •                                                                                 |                                                                                   |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
|          | 802.3az EEE                   | •                                                                                 |                                                                                   | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |

\* All information shown is correct at the time of going to press but is subject to change without notice

# Fast Ethernet Smart Managed PoE Switches

|                   |                                          |                                                                                   |                                                                                    |
|-------------------|------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                   |                                          |  |  |
| <b>Model</b>      |                                          | <b>DES-1210-08P</b>                                                               | <b>DES-1210-28P</b>                                                                |
| <b>Hardware</b>   | Number of Fast Ethernet ports            | 8                                                                                 | 24                                                                                 |
|                   | Number of Gigabit ports                  |                                                                                   | 2                                                                                  |
|                   | Number of Combo 1000Base-T/<br>SFP ports |                                                                                   | 2                                                                                  |
|                   | Number of SFP ports                      |                                                                                   |                                                                                    |
|                   | Switching capacity                       | 1.6 Gbps                                                                          | 12.8 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<br>Port 5-24, up to 15.4 W                                    |
|                   | Fanless                                  | •                                                                                 |                                                                                    |
|                   | D-Link Green                             | •                                                                                 | •                                                                                  |
| <b>L2</b>         | MAC address                              | 8K                                                                                | 8K                                                                                 |
|                   | 802.1D STP, 802.1w RSTP, 802.1s MSTP     | 802.1D, 802.1w                                                                    | 802.1D, 802.1w                                                                     |
|                   | 802.3ad link aggregation / port trunking | 802.3ad                                                                           | 802.3ad                                                                            |
| <b>VLAN</b>       | VLAN group (max static)                  | 256                                                                               | 256                                                                                |
|                   | Port / MAC / protocol-based VLAN, GVRP   |                                                                                   |                                                                                    |
|                   | Asymmetric VLAN                          | •                                                                                 | •                                                                                  |
|                   | Auto Voice/Surveillance VLAN             | •                                                                                 | •                                                                                  |
| <b>L3</b>         | IPv4/IPv6 routing table                  |                                                                                   |                                                                                    |
|                   | IP interfaces                            |                                                                                   |                                                                                    |
|                   | IPv6 Core Ready Logo Phase 2             | •                                                                                 | •                                                                                  |
|                   | Routing table size                       |                                                                                   |                                                                                    |
| <b>QoS</b>        | Static route for IPv4/IPv6               |                                                                                   |                                                                                    |
|                   | Number of queues per port                | 4                                                                                 | 4                                                                                  |
|                   | CoS based on contents                    | •                                                                                 | •                                                                                  |
| <b>ACL</b>        | Bandwidth control (min. granularity)     | • (64Kbps)                                                                        | • (64Kbps)                                                                         |
|                   | ACL (Ingress / Egress / VLAN-based)      | • (Ingress)                                                                       | • (Ingress)                                                                        |
| <b>Security</b>   | Based on packet contents                 | •                                                                                 | •                                                                                  |
|                   | SSH, SSL (v1/v2/v3)                      | SSL                                                                               | SSL                                                                                |
|                   | Smart Binding                            | •                                                                                 | •                                                                                  |
| <b>AAA</b>        | ARP spoofing                             | •                                                                                 | •                                                                                  |
|                   | 802.1X access control                    | •                                                                                 | •                                                                                  |
| <b>Management</b> | RADIUS                                   | •                                                                                 | •                                                                                  |
|                   | SNMP (v1/v2c/v3), RMON v1                | •                                                                                 | •                                                                                  |
|                   | LLDP-MED                                 | •                                                                                 | •                                                                                  |
|                   | ICMPv6                                   | •                                                                                 | •                                                                                  |

\* All information shown is correct at the time of going to press but is subject to change without notice

# Gigabit Smart Managed PoE Switches

|                   |                                          |  |  |  |  |  |
|-------------------|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                   | Model                                    | DGS-1100-08P                                                                      | DGS-1100-10MP                                                                     | DGS-1100-10MPP                                                                      | DGS-1100-24P                                                                        | DGS-1100-26MP                                                                       |
| Hardware          | Number of Gigabit ports                  | 8                                                                                 | 8                                                                                 | 8                                                                                   | 24                                                                                  | 24                                                                                  |
|                   | Number of Combo 1000Base-T/SFP ports     |                                                                                   |                                                                                   |                                                                                     |                                                                                     | 2                                                                                   |
|                   | Number of SFP ports                      |                                                                                   | 2                                                                                 | 2                                                                                   |                                                                                     |                                                                                     |
|                   | Switching capacity                       | 16 Gbps                                                                           | 20 Gbps                                                                           | 20 Gbps                                                                             | 48 Gbps                                                                             | 52 Gbps                                                                             |
|                   | PoE standards                            | 802.3af                                                                           | 802.3af, 802.3at                                                                  | 802.3af, 802.3at, 802.3bt draft, UPoE                                               | 802.3af, 802.3at                                                                    | 802.3af, 802.3at                                                                    |
|                   | PoE power budget                         | 64 W                                                                              | 130 W                                                                             | 242 W                                                                               | 100 W                                                                               | 370 W                                                                               |
|                   | PoE capable ports                        | Port 1-8, up to 15.4 W                                                            | Port 1-8, up to 30 W                                                              | Port 1-6, up to 30 W<br>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                             | •                                                                                 | •                                                                                 | •                                                                                   | •                                                                                   | •                                                                                   |
| L2                | 802.3az EEE                              | •                                                                                 | •                                                                                 | •                                                                                   | •                                                                                   | •                                                                                   |
|                   | MAC address                              | 8K                                                                                | 16K                                                                               | 16K                                                                                 | 8K                                                                                  | 16K                                                                                 |
|                   | 802.1D STP, 802.1w RSTP, 802.1s MSTP     |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| VLAN              | 802.3ad link aggregation / port trunking | Static trunk                                                                      | 802.3ad                                                                           | 802.3ad                                                                             | 802.3ad                                                                             | 802.3ad                                                                             |
|                   | VLAN group (max static)                  | 32                                                                                | 128                                                                               | 128                                                                                 | 64                                                                                  | 128                                                                                 |
|                   | Port / MAC / protocol-based VLAN, GVRP   | 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                                                                                   |
|                   | CoS based on contents                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Surveillance Mode | Bandwidth control (min. granularity)     | • (8 Kbps)                                                                        | • (8 Kbps)                                                                        | • (8 Kbps)                                                                          | • (64 Kbps)                                                                         | • (8 Kbps)                                                                          |
|                   | Video Surveillance Mode                  |                                                                                   | •                                                                                 | •                                                                                   |                                                                                     | •                                                                                   |
|                   | ONVIF Device Discovery                   |                                                                                   | •                                                                                 | •                                                                                   |                                                                                     | •                                                                                   |
|                   | Video Surveillance Topology              |                                                                                   | •                                                                                 | •                                                                                   |                                                                                     | •                                                                                   |
| ACL               | Video Surveillance Device Information    |                                                                                   | •                                                                                 | •                                                                                   |                                                                                     | •                                                                                   |
|                   | ACL (Ingress / Egress / VLAN-based)      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Security          | Based on packet contents                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                   | SSH, SSL (v1/v2/v3)                      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                   | Smart Binding                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| AAA               | ARP spoofing                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                   | 802.1X access control                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Management        | RADIUS server support                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                   | SNMP (v1/v2c/v3), RMON v1                |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                   | LLDP-MED                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                   | ICMPv6                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

\* All information shown is correct at the time of going to press but is subject to change without notice

# Gigabit Smart Managed PoE Switches

|             |                                         | Smart                                                                             |                                                                                   |                                                                                    | Smart+                                                                              |                                                                                     |                                                                                     |                                                                                     |
|-------------|-----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|             |                                         |  |  |  |  |  |  |  |
| Model       |                                         | DGS-1210-08P                                                                      | DGS-1210-24P                                                                      | DGS-1210-10P                                                                       | DGS-1210-28P                                                                        | DGS-1210-28MP                                                                       | DGS-1210-52P                                                                        | DGS-1210-52MP                                                                       |
| Hardware    | Number of Gigabit ports                 | 8                                                                                 | 24                                                                                | 8                                                                                  | 24                                                                                  | 24                                                                                  | 48                                                                                  | 48                                                                                  |
|             | Number of Combo 1000Base-T/SFP ports    |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|             | Number of SFP ports                     | 2                                                                                 | 4                                                                                 | 2                                                                                  | 4                                                                                   | 4                                                                                   | 4                                                                                   | 4                                                                                   |
|             | Switching capacity                      | 20 Gbps                                                                           | 56 Gbps                                                                           | 20 Gbps                                                                            | 56 Gbps                                                                             | 56 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                                                                    |
|             | PoE power budget                        | 45 W                                                                              | 85 W                                                                              | 78 W                                                                               | 193 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 30 W<br>Ports 5-24, up to 15.4 W                                   | Ports 1-24, up to 30 W                                                              | Ports 1-8, up to 30 W<br>Ports 9-24, up to 15.4 W                                   | Ports 1-8, up to 30W<br>Ports 9-48, up to 15.4 W                                    |
|             | Fanless                                 | •                                                                                 | •                                                                                 | •                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|             | Smart fan                               |                                                                                   |                                                                                   |                                                                                    | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | D-Link Green                            | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| 802.3az EEE | •                                       | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   |                                                                                     |
| L2          | MAC address                             | 8K                                                                                | 8K                                                                                | 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                                                                      |
| VLAN        | 802.3ad link aggregation                | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | VLAN group (max static)                 | 256                                                                               | 256                                                                               | 256                                                                                | 256                                                                                 | 256                                                                                 | 256                                                                                 | 256                                                                                 |
|             | Port / MAC / protocol-based VLAN, GVRP  |                                                                                   |                                                                                   | Port                                                                               | Port                                                                                | Port                                                                                | Port                                                                                | Port                                                                                |
|             | Asymmetric VLAN                         | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| L3          | Auto Voice/Surveillance VLAN            | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | IP interfaces                           |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|             | IPv6 Core Ready Logo Phase 2            |                                                                                   |                                                                                   | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | Routing table size                      |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| QoS         | Static route for IPv4/IPv6              |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|             | Number of queues per port               | 8                                                                                 | 8                                                                                 | 4                                                                                  | 8                                                                                   | 8                                                                                   | 8                                                                                   | 8                                                                                   |
|             | CoS based on contents                   | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | Bandwidth control (min. granularity)    | • (15 Kbps)                                                                       | • (15 Kbps)                                                                       | • (64 Kbps)                                                                        | • (64 Kbps)                                                                         | • (64 Kbps)                                                                         | • (64 Kbps)                                                                         | • (64 Kbps)                                                                         |
| ACL         | ACL (Ingress / Egress / VLAN-based ACL) | • (Ingress)                                                                       | • (Ingress)                                                                       | • (Ingress)                                                                        | • (Ingress)                                                                         | • (Ingress)                                                                         | • (Ingress)                                                                         | • (Ingress)                                                                         |
|             | Based on packet contents                | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| Security    | SSH, SSL (v1/v2/v3)                     | SSL                                                                               | SSL                                                                               | SSL                                                                                | SSL                                                                                 | SSL                                                                                 | SSL                                                                                 | SSL                                                                                 |
|             | IP-MAC-port binding (IMPB)              | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | ARP spoofing                            | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| AAA         | 802.1X access control                   | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | RADIUS                                  | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| Management  | SNMP (v1/v2c/v3), RMON v1               | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | LLDP-MED                                | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
|             | ICMPv6                                  | •                                                                                 | •                                                                                 | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |

\* All information shown is correct at the time of going to press but is subject to change without notice

# Stackable Gigabit Smart Managed PoE Switches

|            |                                            |  |  |
|------------|--------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|            | Model                                      | DGS-1510-28P                                                                      | DGS-1510-28XMP                                                                     |
| Hardware   | Number of Gigabit ports                    | 24                                                                                | 24                                                                                 |
|            | Number of 10 Gigabit ports                 |                                                                                   |                                                                                    |
|            | Number of Combo 1000Base-T/SFP ports       |                                                                                   |                                                                                    |
|            | Number of Combo 10GBase-T/SFP+ ports       |                                                                                   |                                                                                    |
|            | Number of SFP ports                        | 2                                                                                 |                                                                                    |
|            | Number of 10G SFP+ ports                   | 2                                                                                 | 4                                                                                  |
|            | Switching capacity                         | 92 Gbps                                                                           | 128 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                                  | 2                                                                                 | 2                                                                                  |
|            | D-Link Green                               | •                                                                                 | •                                                                                  |
|            | 802.3az EEE                                | •                                                                                 | •                                                                                  |
|            | Physical stacking (device / max Bandwidth) | • (6/40G)                                                                         | • (6/40G)                                                                          |
| L2         | Virtual stacking (device)                  | • (32)                                                                            | • (32)                                                                             |
|            | MAC address                                | 16K                                                                               | 16K                                                                                |
|            | 802.1D STP, 802.1w RSTP, 802.1s MSTP       | •                                                                                 | •                                                                                  |
| VLAN       | 802.3ad, 802.1AX link aggregation          | 802.3ad                                                                           | 802.3ad                                                                            |
|            | VLAN group (max static)                    | 4K                                                                                | 4K                                                                                 |
|            | Port / MAC / protocol-based VLAN, GVRP     | Port, GVRP                                                                        | Port, GVRP                                                                         |
|            | Asymmetric VLAN                            | •                                                                                 | •                                                                                  |
| L3         | Auto Voice/Surveillance VLAN               | •                                                                                 | •                                                                                  |
|            | IP interfaces                              | 8                                                                                 | 8                                                                                  |
|            | IPv6 Core Ready Logo Phase 2               | •                                                                                 | •                                                                                  |
|            | Routing table size                         | 128                                                                               | 128                                                                                |
| QoS        | Static route for IPv4/IPv6                 | 64 / 32                                                                           | 64 / 32                                                                            |
|            | Number of queues per port                  | 8                                                                                 | 8                                                                                  |
|            | CoS based on contents                      | •                                                                                 | •                                                                                  |
| ACL        | Bandwidth control (min. granularity)       | • (64 Kbps)                                                                       | • (64 Kbps)                                                                        |
|            | ACL (Ingress / Egress / VLAN-based ACL)    | • (VLAN)                                                                          | • (VLAN)                                                                           |
| Security   | Based on packet contents                   | •                                                                                 | •                                                                                  |
|            | SSH, 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                                     | •                                                                                 | •                                                                                  |

\* All information shown is correct at the time of going to press but is subject to change without notice

# Layer 2 Fast Ethernet Managed PoE Switches

|            |                                                |                                                                                   |                                                                                   |                                                                                    |
|------------|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|            |                                                |  |  |  |
|            | Model                                          | DES-3052P                                                                         | DES-3200-28P                                                                      | DES-3200-52P                                                                       |
| Hardware   | Number of Fast Ethernet ports                  | 48                                                                                | 24                                                                                | 48                                                                                 |
|            | Number of Gigabit ports                        | 2                                                                                 | 2                                                                                 | 2                                                                                  |
|            | Number of Combo 1000Base-T/SFP ports           | 2                                                                                 | 2                                                                                 | 2                                                                                  |
|            | Number of SFP ports                            |                                                                                   |                                                                                   |                                                                                    |
|            | Number of stacking ports                       |                                                                                   |                                                                                   |                                                                                    |
|            | Switching capacity                             | 17.6 Gbps                                                                         | 12.8 Gbps                                                                         | 17.6 Gbps                                                                          |
|            | PoE standards                                  | 802.3af                                                                           | 802.3af, 802.3at                                                                  | 802.3af, 802.3at                                                                   |
|            | PoE power budget                               | 370 W                                                                             | 188 W                                                                             | 370 W                                                                              |
|            | PoE capable ports                              | Ports 1-48, up to 15.4 W                                                          | Ports 1-4, up to 30 W<br>Ports 5-24, up to 15.4 W                                 | Ports 1-8, up to 30 W<br>Ports 9-48, up to 15.4 W                                  |
|            | Fanless                                        |                                                                                   |                                                                                   |                                                                                    |
| L2         | D-Link Green                                   |                                                                                   |                                                                                   |                                                                                    |
|            | 802.3az EEE                                    |                                                                                   | •                                                                                 | •                                                                                  |
|            | Physical stacking (device / max Bandwidth)     |                                                                                   |                                                                                   |                                                                                    |
|            | Virtual stacking (device)                      | • (32)                                                                            | • (32)                                                                            | • (32)                                                                             |
|            | MAC address                                    | 8K                                                                                | 16K                                                                               | 16K                                                                                |
|            | 802.1D STP, 802.1w RSTP, 802.1s MSTP           | •                                                                                 | •                                                                                 | •                                                                                  |
|            | Ethernet ring protection switching (ERPS)      | •                                                                                 | •                                                                                 | •                                                                                  |
|            | 802.3ad, 802.1AX link aggregation              | 802.1ad                                                                           | •                                                                                 | •                                                                                  |
|            | VLAN group (max static)                        | 4K                                                                                | 4K                                                                                | 4K                                                                                 |
|            | Port / MAC / protocol-based VLAN, GVRP         | Port, GVRP                                                                        | •                                                                                 | •                                                                                  |
| VLAN       | Asymmetric VLAN                                | •                                                                                 |                                                                                   |                                                                                    |
|            | Double VLAN (Q-in-Q)                           | •                                                                                 | •                                                                                 | •                                                                                  |
|            | ISM VLAN                                       | •                                                                                 | •                                                                                 | •                                                                                  |
|            | Voice VLAN                                     |                                                                                   | •                                                                                 | •                                                                                  |
|            |                                                |                                                                                   |                                                                                   |                                                                                    |
| L3         | IPv4/IPv6 routing table                        |                                                                                   |                                                                                   |                                                                                    |
|            | IP interfaces                                  |                                                                                   | 2                                                                                 | 2                                                                                  |
|            | IPv6 Ready Logo, IPv6 neighbour discovery (ND) |                                                                                   | •                                                                                 | •                                                                                  |
|            | Static route for IPv4/IPv6                     |                                                                                   |                                                                                   |                                                                                    |
| QoS        | Number of queues per port                      | 4                                                                                 | 8                                                                                 | 8                                                                                  |
|            | CoS based on contents                          | •                                                                                 | •                                                                                 | •                                                                                  |
|            | Bandwidth control (min. granularity)           | • (64Kbps)                                                                        | • (8Kbps)                                                                         | • (8Kbps)                                                                          |
|            | Time-based QoS                                 | •                                                                                 | •                                                                                 | •                                                                                  |
| ACL        | ACL (Ingress / Egress / VLAN-based ACL)        | • (Ingress)                                                                       | • (Ingress)                                                                       | • (Ingress)                                                                        |
|            | Based on packet contents                       | •                                                                                 | •                                                                                 | •                                                                                  |
|            | Time-based ACL                                 | •                                                                                 | •                                                                                 | •                                                                                  |
| Security   | SSH, SSL (v1/v2/v3)                            | •                                                                                 | •                                                                                 | •                                                                                  |
|            | IP-MAC-port binding (IMPB)                     | •                                                                                 | •                                                                                 | •                                                                                  |
|            | ARP spoofing, BPDU attack protection           | ARP Spoofing                                                                      | •                                                                                 | •                                                                                  |
| AAA        | 802.1X access control, Microsoft NAP           | •                                                                                 | •                                                                                 | •                                                                                  |
|            | RADIUS/TACACS+ authentication                  | •                                                                                 | •                                                                                 | •                                                                                  |
|            | SNMP (v1/v2c/v3), RMON v1/v2                   | •                                                                                 | •                                                                                 | •                                                                                  |
| Management | sFlow                                          |                                                                                   | •                                                                                 | •                                                                                  |
|            | LLDP-MED                                       |                                                                                   |                                                                                   |                                                                                    |
|            | ICMPv6                                         | •                                                                                 | •                                                                                 | •                                                                                  |
|            | 802.3ah, 802.1ag, ITU-T Y.1731                 | 802.3ah                                                                           | 802.3ah, 802.1ag                                                                  | 802.3ah, 802.1ag                                                                   |

\* All information shown is correct at the time of going to press but is subject to change without notice

[Additional products continued overleaf](#)

# Layer 2 Gigabit Managed PoE Switches

|                   |                                                  |                                                                                   |                                                                                   |                           |
|-------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|
|                   |                                                  |  |  |                           |
|                   | <b>Model</b>                                     | <b>DGS-3120-24PC/SI</b>                                                           | <b>DGS-3120-48PC/SI</b>                                                           | <b>Enhanced Image</b>     |
| <b>Hardware</b>   | Number of Gigabit ports                          | 20                                                                                | 44                                                                                | See specific switch model |
|                   | Number of Combo 1000Base-T/SFP ports             | 4                                                                                 | 4                                                                                 | See specific switch model |
|                   | Number of SFP ports                              |                                                                                   |                                                                                   | See specific switch model |
|                   | Number of optional 10G uplinks or stacking ports | 2                                                                                 | 2                                                                                 | See specific switch model |
|                   | Switching capacity                               | 88 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<br>(740 W with DPS-700 RPS)                                                 | 370 W<br>(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)                 |
|                   | Virtual stacking (device)                        | • (32)                                                                            | • (32)                                                                            | • (32)                    |
| <b>L2</b>         | MAC address                                      | 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                   |
| <b>VLAN</b>       | VLAN group (max static)                          | 4K                                                                                | 4K                                                                                | 4K                        |
|                   | Port / MAC / protocol-based VLAN, GVRP           | •                                                                                 | •                                                                                 | •                         |
|                   | Port-based double VLAN                           |                                                                                   |                                                                                   | •                         |
|                   | Selective double VLAN                            |                                                                                   |                                                                                   |                           |
|                   | ISM VLAN                                         | •                                                                                 | •                                                                                 | •                         |
|                   | Voice VLAN                                       | •                                                                                 | •                                                                                 | •                         |
| <b>L3</b>         | 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                                |                                                                                   |                                                                                   |                           |
| <b>QoS</b>        | Number of queues per port                        | 8                                                                                 | 8                                                                                 | 8                         |
|                   | CoS based on contents                            | •                                                                                 | •                                                                                 | •                         |
|                   | Bandwidth control (min. granularity)             | • (64Kbps)                                                                        | • (64Kbps)                                                                        | • (64Kbps)                |
|                   | Time-based QoS                                   | •                                                                                 | •                                                                                 | •                         |
| <b>ACL</b>        | ACL (Ingress / Egress / VLAN-based)              | • (Ingress / VLAN-based)                                                          | • (Ingress / VLAN-based)                                                          | •                         |
|                   | Based on packet contents                         | •                                                                                 | •                                                                                 | •                         |
|                   | Time-based ACL                                   | •                                                                                 | •                                                                                 | •                         |
| <b>Security</b>   | SSH, SSL (v1/v2/v3)                              | •                                                                                 | •                                                                                 | •                         |
|                   | IP-MAC-port binding (IMPB)                       |                                                                                   |                                                                                   | •                         |
|                   | ARP spoofing, BPDU attack protection             | •                                                                                 | •                                                                                 | •                         |
| <b>AAA</b>        | 802.1X access control                            | •                                                                                 | •                                                                                 | •                         |
|                   | Microsoft NAP support                            | •                                                                                 | •                                                                                 | •                         |
|                   | RADIUS/TACACS+ authentication                    | •                                                                                 | •                                                                                 | •                         |
| <b>Management</b> | SNMP (v1/v2c/v3), RMON v1/v2                     | •                                                                                 | •                                                                                 | •                         |
|                   | sFlow                                            |                                                                                   |                                                                                   | •                         |
|                   | LLDP-MED                                         | •                                                                                 | •                                                                                 | •                         |
|                   | ICMPv6                                           | •                                                                                 | •                                                                                 | •                         |
|                   | 802.3ah, 802.1ag, ITU-TY.1731                    |                                                                                   |                                                                                   | •                         |

\* All information shown is correct at the time of going to press but is subject to change without notice

# Layer 2+ Gigabit Managed PoE Switches



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

\* All information shown is correct at the time of going to press but is subject to change without notice

Additional products continued overleaf



# Layer 3 Managed Gigabit PoE Switches

|                   |                                                |                                                                                   |                                                                                   |                           |
|-------------------|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|
|                   |                                                |  |  |                           |
|                   | <b>Model</b>                                   | <b>DGS-3620-28PC/SI</b>                                                           | <b>DGS-3620-52P/SI</b>                                                            | <b>Enhanced Image</b>     |
| <b>Hardware</b>   | Number of Gigabit ports                        | 20                                                                                | 48                                                                                | See specific switch model |
|                   | Number of Combo 1000Base-T/SFP ports           | 4                                                                                 |                                                                                   | See specific switch model |
|                   | Number of SFP ports                            |                                                                                   |                                                                                   | See specific switch model |
|                   | Number of 10G SFP+ ports                       | 4                                                                                 | 4                                                                                 | See specific switch model |
|                   | Number of open slots                           | 2                                                                                 | 2                                                                                 | See specific switch model |
|                   | Switching capacity                             | 128 Gbps                                                                          | 176 Gbps                                                                          | See specific switch model |
|                   | PoE standards                                  | 802.3af, 802.3at                                                                  | 802.3af, 802.3at                                                                  | See specific switch model |
|                   | PoE power budget                               | 370 W                                                                             | 370 W                                                                             | See specific switch model |
|                   | PoE capable ports                              | Ports 1-24, up to 15.4 W                                                          | Ports 1-48, up to 15.4 W                                                          | See specific switch model |
|                   | Physical stacking (device / max bandwidth)     | • (12/40G)                                                                        | • (12/40G)                                                                        | • (12/40G)                |
| <b>L2</b>         | Virtual stacking (device)                      | • (32)                                                                            | • (32)                                                                            | • (32)                    |
|                   | MAC address                                    | 32K                                                                               | 32K                                                                               | 32K                       |
|                   | 802.1D STP, 802.1w RSTP, 802.1s MSTP           | •                                                                                 | •                                                                                 | •                         |
|                   | Ethernet ring protection switching (ERPS)      | •                                                                                 | •                                                                                 | •                         |
| <b>VLAN</b>       | 802.3ad, 802.1AX link aggregation              | •                                                                                 | •                                                                                 | •                         |
|                   | VLAN group (max static)                        | 4K                                                                                | 4K                                                                                | 4K                        |
|                   | Port / MAC / protocol-based VLAN, GVRP         | •                                                                                 | •                                                                                 | •                         |
|                   | Port-based, selective double VLAN              | •                                                                                 | •                                                                                 | •                         |
|                   | Super, ISM, Voice VLAN                         | •                                                                                 | •                                                                                 | •                         |
| <b>L3</b>         | 802.1Qbb, 802.1Qaz                             |                                                                                   |                                                                                   | 802.1Qbb                  |
|                   | IPv4/IPv6 routing table                        | 12K / 6K                                                                          | 12K / 6K                                                                          | 12K / 6K                  |
|                   | IPv4/IPv6 forwarding table                     | 8K / 4K                                                                           | 8K / 4K                                                                           | 8K / 4K                   |
|                   | IP interfaces                                  | 256                                                                               | 256                                                                               | 256                       |
|                   | IPv6 Ready Logo, IPv6 neighbour discovery (ND) | •                                                                                 | •                                                                                 | •                         |
|                   | Static route for IPv4/IPv6                     | 256 / 128                                                                         | 256 / 128                                                                         | 256 / 128                 |
|                   | IPv6 tunneling                                 |                                                                                   |                                                                                   | •                         |
|                   | Multicasting                                   | •                                                                                 | •                                                                                 | •                         |
|                   | PIM SM, DVMRP v3                               |                                                                                   |                                                                                   | •                         |
|                   | RIP v1/v2, RIPng, OSPF                         | RIP                                                                               | RIP                                                                               | •                         |
| <b>MPLS</b>       | BGP, OSPFv3                                    |                                                                                   |                                                                                   | •                         |
|                   | MPLS                                           |                                                                                   |                                                                                   |                           |
| <b>QoS</b>        | VPLS                                           |                                                                                   |                                                                                   |                           |
|                   | Number of queues per port                      | 8                                                                                 | 8                                                                                 | 8                         |
|                   | CoS based on contents                          | •                                                                                 | •                                                                                 | •                         |
|                   | Bandwidth control (min. granularity)           | • (8Kbps)                                                                         | • (8Kbps)                                                                         | • (8Kbps)                 |
| <b>ACL</b>        | Three colour marker (min. granularity)         | • (1Kbps)                                                                         | • (1Kbps)                                                                         | • (1Kbps)                 |
|                   | ACL (Ingress / Egress / VLAN-based)            | •                                                                                 | •                                                                                 | •                         |
| <b>Security</b>   | Based on packet contents                       | •                                                                                 | •                                                                                 | •                         |
|                   | SSH, SSL (v1/v2/v3)                            | •                                                                                 | •                                                                                 | •                         |
|                   | IP-MAC-port binding (IMPB)                     | •                                                                                 | •                                                                                 | •                         |
| <b>AAA</b>        | ARP spoofing, BPDU attack protection           | •                                                                                 | •                                                                                 | •                         |
|                   | 802.1X access control, Microsoft NAP           | •                                                                                 | •                                                                                 | •                         |
| <b>Management</b> | RADIUS/TACACS+ authentication                  | •                                                                                 | •                                                                                 | •                         |
|                   | SNMP (v1/v2c/v3), RMON v1/v2, sFlow            | •                                                                                 | •                                                                                 | •                         |
|                   | LLDP-MED                                       | •                                                                                 | •                                                                                 | •                         |
|                   | ICMPv6                                         | •                                                                                 | •                                                                                 | •                         |
|                   | 802.3ah, 802.1ag, ITU-T Y.1731                 | 802.3ah                                                                           | 802.3ah                                                                           | •                         |

\* All information shown is correct at the time of going to press but is subject to change without notice