

Affordable Managed L2 Switches

Entry-Level SNMP Solution

- Powerful Switching Capacity
- Per-Port Bandwidth/Broadcast Storm Control Down to 64Kbps
- Gigabit Fiber Uplinks for Backbone Attachment
- Secure/Effective Management Through RADIUS, Traffic Monitoring

FEATURES

Workgroup/Departmental Connections

- Cost-Effective Ethernet Managed Desktops
- Gigabit Uplinks for Server/Backbone Attachments

Flexible Choices

- 5 Selections of Port Densities
- Desktop and Rack-Mount Sizes
- Open Slots for Optional Uplink Modules *
- Choices of Ethernet and Gigabit Copper/Fiber Uplinks

Security

- Port Security
- 802.1x Port-Based/MAC-Based Access Control
- External RADIUS Server Support
- CPU Interface Filtering

Traffic Monitoring/Bandwidth Control

- Traffic Segmentation
- 802.3ad Link Aggregation (Port Trunks)
- GUI Traffic Monitoring
- RMON Support
- Port Mirroring
- Bandwidth/Broadcast Storm Control
- STP Loopback Detention

Configuration/Management

- Web-Based
- Command Line Interface (CLI)
- SNMP v.1, v.2c, v3 Standard
- Single IP Management Client for Attachment to Virtual Stack
- D-View SNMP Network Management Module Provided
- Telnet Server
- SMTP Client

* Available on DES-3018 and DES-3026 only.

The DES-3000 series switches are high-performance managed Layer 2 switches that provide an ideal solution for workgroups and departments. These switches present a great entry-level managed solution for the SMB just starting out or the already established business looking to bring a managed solution to the desktops. These switches provide fiber uplinks for connection of small groups of users over a larger distance such as on a campus and between indoor departments or school classrooms.

High-Performance L2 Switching. With powerful switch fabric and abundant processing memory, the DES-3000 series provides wire-speed high performance for departments and workgroups. These switches include support for traffic segmentation that isolates ports to protect privacy. They allow you to migrate end users to an 802.1x environment when existing workstations support the 802.1x authentication protocol.

Investment Protection. By supporting industry approved specifications, the DES-3000 series leverages your existing investment in a multi-vendor environment, while maximizing compatibility of business with critical features like Spanning Tree (802.1D and 802.1w), QoS (802.1p), port mirroring and network management. These switches provide robust support for standard-based management protocols such as SNMP, RMON, BOOTP, Telnet, web and port mirroring, enabling you to integrate them into many third-party network management packages.

Advanced Enterprise Features. The DES-3000 series switches bring advanced enterprise functions to a more affordable level while supporting advanced features: 802.1p and port-based QoS/CoS, rich security and management features such as port-based/MAC-based 802.1x authentication and bandwidth control. These switches also support many of the features you would expect to see on a larger managed solution such as: IGMP snooping, 802.3ad Link Aggregation, 255 VLANs, traffic segmentation, traffic monitoring and SYSLOG.

Bandwidth Limiting. You can define throughput levels for each port and control access based on type of end user to manage different applications like VoIP, web browsing, video and email, and regain control of traffic across the network. The bandwidth limiting feature provides fine granularity with the ability to define limits down to 64Kbps segments. When applied to control of broadcast storms infected with virus, this feature can limit the level of damage a virus attack can do to your network.

Cost-Effective Virtual Stack. With D-Link Single IP Management client support, the DES-3000 series can be attached to a higher-level core switch such as a DES-6500 chassis or a D-Link xStack to form a virtual stack. The DES-3000 series can form a workgroup or departmental stack providing 10/100Mbps speed with Gigabit uplinks to the core switch. The DES-3000 series simplifies and speeds up your management tasks, as multiple switches can be configured, monitored and maintained from a management station through one unique IP address.



Specification Chart

DES-3010G

DES-3010F

DES-3010FL

DES-3018

DES-3026



| | | | | | | |
|---------------------------------|-----------------------------------|---|---|---|---|---|
| Physical & Hardware | Size | Desktop Size, 1U Height | Desktop Size, 1U Height | Desktop Size, 1U Height | Rackmount Width, 1U Height | Rackmount Width, 1U Height |
| | Interfaces | 8 10/100BASE-TX Ethernet 1 1000BASE-T Gigabit 1 SFP | 8 10/100BASE-TX Ethernet 1 1000BASE-T Gigabit 1 100BASE-FX Ethernet | 8 10/100BASE-TX Ethernet 1 1000BASE-T Gigabit 1 100BASE-FX Ethernet | 16 10/100BASE-TX Ethernet 2 Open Slots | 24 10/100BASE-TX Ethernet 2 Open Slots |
| | Stacking Topology | Virtual Stacking via SIM | Virtual Stacking via SIM | Virtual Stacking via SIM | Virtual Stacking via SIM | Virtual Stacking via SIM |
| Performance | Switching Capacity | 5.6 Gbps | 5.6 Gbps | 5.6 Gbps | 7.2 Gbps | 8.8 Gbps |
| | 64-Byte Packet Forwarding Rate | 4.2 Mpps | 4.2 Mpps | 4.2 Mpps | 5.4 Mpps | 6.6 Mpps |
| | MAC Address Table Size | 8 K | 8 K | 8 K | 8 K | 8 K |
| | SDRAM for CPU | 32 MB | 32 MB | 32 MB | 32 MB | 32 MB |
| | Packet Buffer | 256 KB | 256 KB | 256 KB | 256 KB | 256 KB |
| | Flash Memory | 4 MB | 4 MB | 4 MB | 4 MB | 4 MB |
| L2 Features | IGMP Snooping | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 802.1D Spanning Tree | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 802.1w Rapid Spanning Tree | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 802.3ad Link Aggregation | ✓ | ✓ | ✓ | ✓ | ✓ |
| | No. of Ports Per Group | 8 Ports | 8 Ports | 8 Ports | 8 Ports | 8 Ports |
| | No. of Groups Per Device | 3 Groups | 3 Groups | 3 Groups | 3 Groups | 3 Groups |
| | Port mirroring | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Broadcast Storm Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| STP Loopback Detection | ✓ | ✓ | ✓ | ✓ | ✓ | |
| VLAN | 802.1Q | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Maximum VLANs | Total 255 | Total 255 | Total 255 | Total 255 | Total 255 |
| | VLAN Type Support | Static Only | Static Only | Static Only | Static Only | Static Only |
| Quality of Service (QoS) | 802.1p Priority Queues | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Number of Priority Queues | 4 | 4 | 4 | 4 | 4 |
| | Port-Based QoS | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MAC-Based (DA/SA) QoS | * | * | * | * | * |
| Network Access/Security | RADIUS Authentication | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Port Security With Trap/Log | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Maximum MAC Entries Per Port | 10 | 10 | 10 | 10 | 10 |
| | 802.1x Port-based Access Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 802.1x MAC-based Access Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Bandwidth Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Rate Limit | Under 2MB: 64KB Under 100MB: 1MB Above 100MB: 8MB | Under 2MB: 64KB Under 100MB: 1MB Above 100MB: 8MB | Under 2MB: 64KB Under 100MB: 1MB Above 100MB: 8MB | Under 2MB: 64KB Under 100MB: 1MB Above 100MB: 8MB | Under 2MB: 64KB Under 100MB: 1MB Above 100MB: 8MB |
| | Traffic Segmentation | ✓ | ✓ | ✓ | ✓ | ✓ |
| | CPU Interface Filtering | ✓ | ✓ | ✓ | ✓ | ✓ |
| Management | D-Link Single IP Management (SIM) | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Web-GUI | ✓ | ✓ | ✓ | ✓ | ✓ |
| | CLI | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Telnet | ✓ | ✓ | ✓ | ✓ | ✓ |
| | TFTP | ✓ | ✓ | ✓ | ✓ | ✓ |
| | SNMP v.1 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | SNMP v.2c | ✓ | ✓ | ✓ | ✓ | ✓ |
| | SNMP v.3 | ✓ | ✓ | ✓ | ✓ | ✓ |
| | RMON | 4 Groups | 4 Groups | 4 Groups | 4 Groups | 4 Groups |
| | BooP/DHCP Client | ✓ | ✓ | ✓ | ✓ | ✓ |
| | SNTp | ✓ | ✓ | ✓ | ✓ | ✓ |
| | SYSLOG | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Web GUI Traffic Monitoring | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Web MAC Address Browsing | ✓ | ✓ | ✓ | ✓ | ✓ |
| | SMTP Client | ✓ | ✓ | ✓ | ✓ | ✓ |
| Diagnostic LEDs | Power (Per Device) | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Console (Per Device) | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Link/Activity (Per Port) | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Speed Indicator (Per Port) | ✓ | ✓ | ✓ | ✓ | ✓ |

* Available in future.

5 Port Densities

Depending on your network size, you can select to deploy a switch with a different port density and size to handle your particular requirement. All switches in the series are completely function-compatible and interoperable.

| DES-3010G FOR SMALL WORKGROUP | DES-3010F FOR SMALL WORKGROUP | DES-3010FL FOR SMALL WORKGROUP | DES-3018 FORMID-SIZED WORKGROUP | DES-3026 FOR LARGE WORKGROUP |
|---|--|--|---|---|
| <ul style="list-style-type: none"> 8 10/100Mbps Ethernet Ports Copper Gigabit Port SFP Gigabit Slot RS-232 Console Port Desktop Size | <ul style="list-style-type: none"> 8 10/100Mbps Ethernet Ports Copper Gigabit Port Fiber Ethernet Port (SC Connector) Multi-Mode Fiber Max. 2 km Cable Distance RS-232 Console Port Desktop Size | <ul style="list-style-type: none"> 8 10/100Mbps Ethernet Ports Copper Gigabit Port Fiber Ethernet Port (SC Connector) Single-Mode Fiber Max. 30 km Cable Distance RS-232 Console Port Desktop Size | <ul style="list-style-type: none"> 16 10/100Mbps Ethernet Ports 2 Open Slots for Optional Fiber & Gigabit Uplinks RS-232 Console Port Rack-Mount Size | <ul style="list-style-type: none"> 24 10/100Mbps Ethernet Ports 2 Open Slots for Optional Fiber & Gigabit Uplinks RS-232 Console Port Rack-Mount Size |



4 Optional Uplink Modules

4 user-selectable optional uplink modules are available for installation in the open slots of switch models DES-3018 and DES-3026.

| DEM-301T COPPER GIGABIT MODULE | DEM-301G SFP GIGABIT MODULE | DEM-201F FIBER ETHERNET MODULE | DEM-201FL FIBER ETHERNET MODULE |
|--|--|--|--|
| <ul style="list-style-type: none"> 1 100BASE-T Gigabit Port | <ul style="list-style-type: none"> 1 SFP Slot | <ul style="list-style-type: none"> 1 100BASE-FX Ethernet Port (SC Connector) Multi-Mode Fiber Max. 2 km Cable Distance | <ul style="list-style-type: none"> 1 100BASE-FL Ethernet Port (SC Connector) Single-Mode Fiber Max. 15 km Cable Distance |



| Physical & Environmental | DES-3010G | DES-3010F | DES-3010FL | DES-3018 | DES-3026 |
|--------------------------|---|-----------|------------|--|----------|
| Power Input | 100 to 240 VAC, 50 to 60 Hz Internal Universal Power Supply | | | | |
| Dimensions | 280 (W) x 180 (D) x 44 (H) mm Desktop Size, 1U Height | | | 441 (W) x 207 (D) x 44 (H) mm 19-inch Rack Mount Width, 1U Height | |
| Operating Temperature | 0° to 40°C | | | | |
| Storage Temperature | -40° to 70°C | | | | |
| Operating Humidity | 5% to 95% non-condensing | | | | |
| EMI | FCC Class A CE C-Tick VCCI | | | | |
| Safety | CSA International | | | | |



D-Link Worldwide Offices

| | | | | | |
|-----------------------|-------------------------|------------------------|----------------------------|--------------------------|--------------------------|
| U.S.A. | TEL: 1-800-326-1688 | FAX: 1-866-743-4905 | Luxemburg | TEL: 32-(0)2-517-7111 | FAX: 32-(0)2-517-6500 |
| Canada | TEL: 1-905-8295033 | FAX: 1-905-8295223 | Poland | TEL: 48-(0)-22-583-92-75 | FAX: 48-(0)-22-583-92-76 |
| Europe (U. K.) | TEL: 44-20-8731-5555 | FAX: 44-20-8731-5511 | Hungary | TEL: 36-(0)-1-461-30-00 | FAX: 36-(0)-1-461-30-09 |
| Germany | TEL: 49-6196-77990 | FAX: 49-6196-7799300 | Singapore | TEL: 65-6774-6233 | FAX: 65-6774-6322 |
| France | TEL: 33-1-30238688 | FAX: 33-1-30238689 | Australia | TEL: 61-2-8899-1800 | FAX: 61-2-8899-1868 |
| Netherlands | TEL: 31-10-282-1445 | FAX: 31-10-282-1331 | India | TEL: 91-022-26526696 | FAX: 91-022-26528914 |
| Belgium | TEL: 32(0)2-517-7111 | FAX: 32(0)2-517-6500 | Middle East (Dubai) | TEL: 971-4-3916480 | FAX: 971-4-3908881 |
| Italy | TEL: 39-02-2900-0676 | FAX: 39-02-2900-1723 | Turkey | TEL: 90-212-289-56-59 | FAX: 90-212-289-76-06 |
| Sweden | TEL: 46-(0)8564-61900 | FAX: 46-(0)8564-61901 | Egypt | TEL: 202-414-4295 | FAX: 202-415-6704 |
| Denmark | TEL: 45-43-969040 | FAX: 45-43-424347 | Israel | TEL: 972-9-9715700 | FAX: 972-9-9715601 |
| Norway | TEL: 47-99-300-100 | FAX: 47-22-309580 | LatinAmerica | TEL: 56-2-232-3185 | FAX: 56-2-232-0923 |
| Finland | TEL: 358-9-2707 5080 | FAX: 358-9-2707-5081 | Brazil | TEL: 55-11-218-59300 | FAX: 55-11-218-59322 |
| Spain | TEL: 34-93-4090770 | FAX: 34-93-4910795 | South Africa | TEL: 27-12-665-2165 | FAX: 27-12-665-2186 |
| Portugal | TEL: 351-21-8688493 | | Russia | TEL: 7-495-744-0099 | FAX: 7-495-744-0099 #350 |
| Czech Republic | TEL: 420-(603)-276-589 | | China | TEL: 86-10-58635800 | FAX: 86-10-58635799 |
| Switzerland | TEL: 41-(0)-1-832-11-00 | FAX: 41(0)-1-832-11-01 | Taiwan | TEL: 886-2-6600-0123 | FAX: 886-2-6600-8168 |
| Greece | TEL: 30-210-9914 512 | FAX: 30-210-9916902 | Headquarters | TEL: 886-2-6600-0123 | FAX: 886-2-6600-9898 |