



DES-1226G

24-Port 10/100Mbps Smart Switch

With 2 Combo Copper Gigabit/SFP

The DES-1226G Smart Switch presents a cost-effective solution for the small and medium business to implement Ethernet packet switching with easy fine-tuning of network performance and security. This switch comes with 24 10/100BASE-TX Fast Ethernet ports and 2 combo 1000BASE-T/SFP ports for flexible copper/fiber Gigabit connection. Port trunks are provided for server deployment and network backbone attachment, while functions important for bandwidth-intensive applications such as Priority Queues and VLANs are supported to enable you to implement Quality of Service (QoS) and security without having to go through complex network management usually found in other managed switches.

24 10/100Mbps Ports for Workstations Connection

The switch provides 24 10/100Mbps ports supporting auto-sensing and auto-negotiation of network speeds and full/half duplex. These ports can connect to workstations and print servers, giving each a dedicated bandwidth. All ports support auto MDI/MDIX cross-over, allowing you to connect to any node without the need to change your usual straight-through twisted-pair cables.

2 Combo 1000BASE-T/SFP for Flexible Gigabit Connection

2 combo 1000BASE-T/SFP are provided for flexible copper or fiber Gigabit connection. You can select to install optional transceivers in the SFP slots for short, medium or long-distance fiber backbone attachment. Use of the SFP will disable their corresponding built-in 1000BASE-T connections.

Port Trunks for Aggregated Bandwidths

Ports can be combined together to create multi-link load-sharing aggregated bandwidths to a server or a network backbone. To expand the network, you can also make use of the port trunks to eliminate bottlenecks between the cascaded switches. The switch allows you to combine multiple ports per trunk, and to create multi-link port trunks.

VLANs for Enhanced Security & Performance

The switch supports VLANs to let you improve security and bandwidth utilization by limiting the broadcast domains and confining intra-group traffic within their segments. To segment up the network, VLAN-supported workstations and servers that are connected to the switch can be grouped into different Virtual LANs (VLANs).

Quality of Service Support

The switch supports Layer 2 802.1p Priority Queue control to prioritize network packets. Classification of users' data priorities can be based on a data packet Priority Queue. This QoS function support allows you to run bandwidth-intensive and delay-sensitive applications and to attach video servers to the switch for video conference.

Port Mirroring

The switch supports port mirroring to assist network traffic monitoring. The network administrator can use this function as a diagnostic tool or debugging feature, especially when fending off an attack. It enables you to keep close track of switch performance and alter it if necessary. Port mirroring can be managed locally or remotely. The administrator places a protocol analyzer on the port receiving the mirrored data to monitor each segment separately. The analyzer captures and evaluates the data without affecting the client on the original port.

Key Features

- 24 10/100Mbps Fast Ethernet ports for workstations
- 2 combo 1000BASE-T/SFP for flexible Gigabit connection
- Auto MDI/MDIX cross over for all twisted-pair ports
- 802.3x Flow Control for protection against data loss
- Port trunks for server/network backbone attachments
- Static MAC-based access control
- Port mirroring for traffic monitoring
- 802.1Q VLAN support to enhance security/network performance
- 802.1p Priority Queues QoS
- Easy configuration through web-based management
- SNMP management with built-in MIB support
- Standard rack-mount size

DES-1226G

Technical Specifications

General

Port Standards & Functions

- IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)
- IEEE 802.3z Gigabit Ethernet (fiber)
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control
- Port mirroring

Number of Ports

- 24 10BASE-T/100BASE-TX ports
- 2 combo 1000BASE-T/SFP *

** Use of the SFP will disable their corresponding 10/100/1000BASE-T connections*

SFP Support

- IEEE 802.3z 1000BASE-LX (DEM-310GT transceiver)
- IEEE 802.3z 1000BASE-SX (DEM-311GT/DEM-312GT2 transceiver)
- IEEE 802.3z 1000BASE-LHX (DEM-314GT transceiver)
- IEEE 802.3z 1000BASE-LX (DEM-315GT transceiver)

Protocol

CSMA/CD

Data Transfer Rates

- Ethernet:
 - 10Mbps (half duplex)
 - 20Mbps (full duplex)
- Fast Ethernet:
 - 100Mbps (half duplex)
 - 200Mbps (full duplex)
- Gigabit Ethernet:
 - 2000Mbps (full duplex)

Topology

Star

Network Cables

- UTP Cat. 5, Cat. 5e (100 m max.)
- EIA/TIA-568 100-ohm STP (100 m max.)

Full/half Duplex

- Full/half duplex for 10/100Mbps speeds
- Full duplex for Gigabit speed

Media Interface Exchange

Auto MDI/MDIX adjustment for all twisted-pair ports

LED Indicators

- Per port: Link/Act, Speed
- Per device: Power/CPU

Software

VLAN

- 802.1Q VLAN
- Maximum number of VLAN: 64 per device

User Access Security

- MAC-based access control (64 static entries)

Quality of Service (QoS)

- 802.1p Priority Queues
- Maximum number of queues: 2

Port Trunks

- 2 10/100Mbps port trunk groups (up to 12 10/100Mbps ports per trunk)
- 1 Gigabit port trunk (2 Gigabit ports per trunk)

Management & Configuration

- Web-based configuration
- Windows-based utility
- Configuration reset through software or hardware (reset button)
- SNMP v.1 with MIB-II (RFC 1213), private MIB support

Port Mirroring

10/100Mbps Smart Switch

Performance

Transmission Method

Store-and-forward

MAC Address Table

8K entries per device

MAC Address Learning

Automatic update

Packet Filtering/Forwarding Rates (half duplex)

Maximum 1,488,095 pps per port

RAM Buffer

256KB per device

Physical & Environmental

AC Input

100 to 240 VAC 50/60Hz internal universal power supply

Power Consumption

16 watts

Operating Temperature

0° to 40 °C

Storage Temperature

-10° to 70 °C

Operating Humidity

10% to 90% non-condensing

Storage Humidity

5% to 90% non-condensing

Dimensions

440 (W) x 140 (D) x 44 (H) mm (device only)
19-inch standard rack mounting size

Weight

2.125 kg (device only)

Emission (EMI)

- FCC Class A
- CE Class A

Safety

CUL

MTBT

406950 hours

Ordering Information

Smart 10/100Mbps Switch

DES-1226G 24 10/100BASE-TX ports, 2 combo 1000BASE-T/SFP

Optional SFP Transceiver

DEM-310GT	SFP transceiver for 1000BASE-LX, single-mode fiber, max. distance 10km, 3.3V
DEM-311GT	SFP transceiver for 1000BASE-SX, multi-mode fiber, max. distance 550m, 3.3V
DEM-312GT2	SFP transceiver for 1000BASE-SX, multi-mode fiber, max. distance 2km, 3.3V
DEM-314GT	SFP transceiver for 1000BASE-LHX, single-mode fiber, max. distance 50km, 3.3V
DEM-315GT	SFP transceiver for 1000BASE-LX, Single-mode fiber, max. distance 80km, 3.3V



D-Link Worldwide Offices

U.S.A	TEL: 1-800-326-1688	FAX: 1-866-743-4905	Bulgaria	TEL: 359 2 958 22 42	FAX: 359 2 958 65 57
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223	Romania	TEL: 40(0)21 320 23 05	FAX: 40(0)21 320 23 07
Europe (U. K.)	TEL: 44-(0)20-8955-9000	FAX: 44-(0)20-8955-9001	Singapore	TEL: 65-6774-6233	FAX: 65-6774-63225
Germany	TEL: 49-(0)6196-77990	FAX: 49-(0)6196-7799300	Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
France	TEL: 33 (0)1 30 23 86 88	FAX: 33 (0)1 30 23 86 89	India	TEL: 91-22-2652 6696	FAX: 91-22-2652 8914
Netherlands	TEL: 31-(0)10-282-1445	FAX: 31-(0)10-282-1331	Middle East (Dubai)	TEL: 971-4-391-6480	FAX: 971-4-390-8881
Belgium & Luxemburg	TEL: 32(0)2 517 7111	FAX: 32(0)2 517 6500	Egypt	TEL: 202-291-9035	FAX: 202-291-9051
Switzerland	TEL: 41 (0)1 832 11 00	FAX: 41 (0)1 832 11 01	Turkey	TEL: 90-212-289-5659	FAX: 90-212-289-7606
Austria	TEL: 43 (0)1 240 27 270	FAX: 43 (0)1 240 27 271	Iran	TEL: 90-212-289-5659	FAX: 90-212-289-7606
Sweden	TEL: 46-(0)8 564 619 00	FAX: 46-(0)8 564 619 01	Pakistan	TEL: 92-21-454-8158	FAX: 92-21-453-5103
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 30 90 85	Latin America	TEL: 56-2-5838-950	FAX: 56-2-5838953
Finland	TEL: 358-10 309 8840	FAX: 358-10 309 8841	Brazil	TEL: 55-11-2185-9300	FAX: 55-11-2185-9322
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723	South Africa	TEL: 27-12-665-2165	FAX: 27-12-665-2186
Spain	TEL: 34 93 409 0770	FAX: 34 93 491 0795	Russia	TEL: 7-495-744-0099	FAX: 7-495-744-0099
Portugal	TEL: 351 21 8688493	FAX: 351 21 8622492	Japan	TEL: 81-3-5781-0963	FAX: 81-3-5781-0965
Greece	TEL: 30 210 9914 512	FAX: 30 210 9916902	Korea	TEL: 82-2-890-5491	FAX: 82-2-890-549
Czech Republic	TEL: 420 224 247 500	FAX: 420 224 234 967	China	TEL: 86-10-58635800	FAX: 86-10-58635799
Hungary	TEL: 36 (0)1 461 30 00	FAX: 36 (0)1 461 30 04	Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-3939
Poland	TEL: 48 (0)22 583 92 75	FAX: 48 (0)22 583 92 76	Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898