

**Security:**

- + IEEE 802.1p Priority
- + DiffServ QoS
- + IEEE 802.1x (Port Based Authentication)
- + IEEE 802.1x (MAC Based Authentication)
- + IEEE 802.1Q VLANs (Up to 256 Groups)
- + TACACS+ / RADIUS
- + Layer 2/3/4 ACLs
- + Port-based security
- + SSHv2, SSL

High Performance Switching:

- + Mini Jumbo Frames up to 1632 Bytes
- + 802.3ad LACP
- + 802.1D Spanning Tree
- + 802.1w Rapid Spanning Tree
- + 802.1s Multiple Spanning Tree
- + IGMP Snooping
- + Rate Limiting

Network Management:

- + Console
- + Telnet
- + SNMPv1/v2c/v3
- + RMON (4 Groups)
- + Web GUI
- + Industry-standard CLI
- + SYSLOG
- + Port Mirroring (one-to-one / many-to-one)

48-port 10/100 Web Smart PoE Switch + 4 Gigabit Uplinks

The D-Link Web Smart 48-Port 10/100 PoE Switch with 4 Gigabit Copper Ports and 2 Combo SFP Uplinks (DES-3252P) is the latest addition to the Web Smart Family. With 48 PoE ports, each port is capable of providing up to 16.8 Watts to the attached PoE device. Designed for VoIP deployment with rich QoS options, the DES-3252P also emphasizes on security with enhanced Access Control Lists (ACLs). The DES-3252P offers 4 gigabit copper ports and 2 SFP combo ports for backbone connections. The 2 SFP combo ports support optional gigabit or 100BASE-FX transceivers for backbone connections up to 10km away. As with all D-Link Web Smart switches, the DES-3252P utilizes a user-friendly Web-based user interface in addition to a standard configuration CLI to facilitate fast configuration of the switch such as configuring universal ACL rules. The DES-3252P is ideal for connecting edge access equipment such as wireless cameras, wireless access points, or VoIP phones.

Power over Ethernet IEEE802.3af

Wherever the location—factory, warehouse, campus, small office, or enterprise facility—the challenge and cost of running power to difficult-to-reach locations in order to meet network design can become a disruption to business and a drain on resources. To solve this problem, the DES-3252P is equipped with (48) 10/100BASE-T ports that support the 802.3af PoE protocol. The DES-3252P is designed to inject up to 16.8 Watts of power per port on all 48 RJ-45 ports to support IP Phones, Access Points, Cameras, and more. For devices that are not IEEE 802.3af compliant, the D-Link DWL-P50 adapter can be used to supply power to the device making it fully compatible with any 802.3af compliant switch.

Comprehensive Security

The DES-3252P is equipped to handle many of today's emerging security vulnerabilities previously delegated to only stand-alone firewalls. It supports ACLs for controlling traffic based on Layer 2/3/4 criteria. Port and MAC based 802.1x authentication can also be set up to prevent

unauthorized network logins. In addition, port-based security can be set up to protect the integrity of the network.

Advanced QoS

The DES-3252P provides a robust and consistent set of QoS/CoS, supporting 4 priority queues for 802.1p/ToS/DiffServ, with classification and marking based on MAC SA/DA, IP SA/DA, and/or TCP/UDP. It also provides multicast support with IGMP snooping. Further traffic management can be done through IEEE 802.1Q VLANs, and port-based VLANs for up to 255 groups per device. The comprehensive features that QoS offers will facilitate VoIP or video deployments to prevent voice packet drops or video jitters. Multicast traffic such as video can be demanding to a network and rapidly deplete the bandwidth, but with IGMP snooping enabled, the traffic can be automatically duplicated by the switch and sent to the right nodes without congesting the network. DES-3252P also offers bandwidth management and egress/ingress options for administrators to set limitations per port accordingly.

High Availability

The DES-3252P supports an optional Redundant Power Supply, ensuring the availability of the network to the end nodes attached to the switch. The DES-3252P also features IEEE 802.3d Spanning Tree, 802.1s Multiple Spanning Tree, and 802.1w Rapid Spanning Tree for increased network reliability and availability.

Network Management

The DES-3252P features a variety of network management options; a Graphic User Interface (GUI) for easy configuration and an industry-standard CLI for advanced users. SNMPv1/v2c/v3, RMON, SYSLOG are available for monitoring the status of the network, while port mirroring can be used to observe traffic for a designated port. Management traffic can be encrypted through SSH and SSL options.



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Technical Specifications

Product specifications

DES-3252P	Web Smart Switch with (48) 10/100Mbps Ports, (4) 1000BASE-T and (2) Combo SFP Ports
MAC address Table	8K
Switch Fabric	17.6Gbps
Transmission Method	Store-and-Forward
Forwarding Rate	14,880pps (10M), 148,800pps (100M)1,488,000pps (1000M)14,880,000pps
VLANs	Support up to 256 VLAN Groups (Port Based, 802.1p, GVRP)
Priority Queues	4 Queues (Strict Priority or Weight Round Robin Queue Scheduling)
Security	Port based security, management Access Rules
Classification QoS/ACLS	Physical port, DSCP, 802.1p/ToS/DiffServ, with Classification and Marking Based on MAC SA/DA, IP SA/DA, and/or TCP/UDP.
Multicast Support	IGMP Snooping, Packet Storm Control, MAC Multicast Filtering, Static Multicast Groups
Bandwidth Management	Rate Limiting, Broadcast Storm Control, LAG LACP, Port Trunking, Mini-jumbo Frame of up to 1632 bytes
Spanning Tree	Spanning Tree, Rapid Spanning Tree, Multiple Spanning (Up to 16 Instances), BPDU Filtering, STP Fast Link Option

Interface Options

RJ-45	10BASE-T, 100BASE-TX & 1000BASE-T
LC	With optional Standard Small Form-Factor Pluggable (SFP) Gigabit or 100BASE-FX Transceivers
RPS	Redundant Power Supply Via Optional DPS-600

Network Management

In Band & Out of Band	Telnet, CLI/Console, RMON, Web-based HTTP, SNMPv1/v2c/v3, Syslog, Port Mirroring, TFTP Client, BootP/DHCP Client
IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.3ab Gigabit Ethernet, 802.3z Gigabit Ethernet, 802.1d Spanning Tree, 802.1w Rapid Spanning Tree, 802.1p Priority Tags, 802.1Q VLANs, 802.3ad Link Aggregation, 802.3x Flow Control, 802.1x Port-based Authentication, 802.1S (Multiple Spanning Tree), 802.3af Power Over Ethernet
IETF	RFC 1157 SNMP, RFC 1112/2236 IGMPv1/2, RFC 1757 RMON (4 Groups), RFC 1493 Bridge MIB, RFC 1213 MIB II, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet
Others	Standard Network Time Protocol (SNTP), SYSLOG, DNS Client, Trace Route, Dual Image, Password Recovery, Port Utilization, Virtual Cable Diagnostics

Electrical & Emissions Summary

Emissions	CE Mark & FCC Class A,
Power Supply	100-240VAC, 50/60 Hz Internal Universal
Power Consumption	395 watts Maximum
PoE Budget	370 watts
PoE per Port	1 - 15.4 Watts (user configurable)



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Safety Agency Certifications and Environmental

Safety	CE/ LVD, UL Listed (UL1950)/CUL
Physical and Environmental	
Temperature	Operating: 32° to 122°F (0° to 50°C) Storage: 13° to 131°F (-20° to 70°C)
Humidity	Operating: 0% ~ 90% RH, Non-condensing Storage: 0% ~ 95% RH, Non-condensing

Physical Specifications

Chassis Type	1U
Dimensions (W x D x H)	17.32in x 16.93in x 1.77in (440mm x 430mm x 45mm)
Weight	14.33lbs (6.5kg)

Warranty and Support Information

Warranty	Limited Lifetime Warranty ¹
Support	Free Technical Support

Ordering Information

<u>Part Number</u>	<u>Description</u>
DES-3252P	Web Smart Switch with (48) 10/100Mbps Ports, (4) Gigabit Copper Ports with (2) SFP Combo Ports
DEM-310GT	Mini-GBIC/SFP 1000BASE-LX (up to 10Km)
DEM-311GT	Mini-GBIC/SFP 1000BASE-SX (up to 550m)
DEM-211	Mini-GBIC/SFP 100BASE-FX MMF (up to 2Km)
DPS-600	Redundant Power Supply

¹ Limited Lifetime Warranty only available in the USA and Canada.