

Fanless Design

- · Provides silent operation
- · Saves energy while lowering costs
- Provides continuous, reliable and eco-friendly operation

Security Features

- · Access Control List secures network
- D-Link Safeguard Engine[™] protects CPU from Broadcast/Multicast/ Unicast flooding
- Port security supports 64 MACs per port

Intuitive Management

- Manage using SmartConsole or web-based GUI
- Built-in MIB browser for SNMP Management
- D-View 6.0 module support
- · Compact CLI through Telnet

VoIP Deployment

- Highest priority for VoIP services
- Auto Voice VLAN

OoS

- Ensure time-sensitive data gets delivered efficiently
- Supports IEEE 802.1p QoS up to four 802.1p Priority Queues
- DSCP QoS

Trap & Logs

- SNMP Trap supports link and STP state change
- Trap for SmartConsole Utility

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Web Smart 24/48-Port Switches with 4 GbE and 2 Combo SFP Slots

Overview

The D-Link® DES-1210 Series is the latest generation of Web Smart Switches. Equipped with 24 or 48 10/100Mbps ports, two 10/100/1000BASE-T ports, and two combo 10/100/1000BASE-T/SFP ports, the series integrates advanced management and security functions to provide performance and scalability. While easy to use, the DES-1210 Series provides a complete and affordable solution for small and medium businesses. Management options for the switches include SNMP, Web Management, SmartConsole Utility, and compact Command Lines. The series also supports ACL filtering and the D-Link Safeguard Engine™. Furthermore, the DES-1210 Series uses Auto Voice VLAN, ensuring higher priority for voice traffic. Both models come with an innovative fanless design in 19" metal cases.

Seamless Integration

The Web Smart Switches are designed to provide SMB users complete control over the network. With Ethernet and Gigabit copper ports capable of connecting to existing Cat.5 twisted-pair cables, these switches eliminate the need for a complex reconfiguration process. The DES-1210 Series allows for a flexible connection to a backbone or servers. Additionally, all ports support auto-negotiation of MDI/MDI-X crossover, or configurable auto MDI, and therefore do away with crossover cables or uplink ports. This brings inexpensive and easy connectivity to your desktop.

Extensive Layer 2 Features

Equipped with a complete lineup of L2 features, these switches include IGMP Snooping, Port Mirroring, Spanning Tree and Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfer. At

2000Mbps Full Duplex, the Gigabit ports provide high-speed data pipes to servers with minimum data transfer loss. Network maintenance features include Loopback Detection and Cable Diagnostics. Loopback Detection is used to detect loops created by a specific port and automatically shut down the affected port. Cable Diagnostics are designed for network administrators to quickly examine the quality of the copper cables and determine the type of cable error.

QoS, Bandwidth Control

The switches are perfect for deployment in a VoIP environment, as they support Auto Voice VLAN and Differentiated Services Code Point (DSCP) QoS for VoIP application. Auto Voice VLAN will automatically place voice traffic from an IP phone to an assigned VLAN and by doing so enhance the VoIP service.

With a higher priority and individual VLAN, this feature guarantees the quality and security of VoIP traffic. DSCP marks parts of an IP packet, enabling different levels of service to be assigned for network traffic. With Bandwidth Control, the network administrator can reserve bandwidth for important functions that require a larger bandwidth or might have high priority.

Secure Your Network

The innovative D-Link Safeguard Engine function protects the switches against traffic flooding caused by virus attacks. The switches support 802.1X port-based authentication, allowing the network to be authenticated through external RADIUS servers. In addition, the Access Control List (ACL) feature enhances network security and helps to protect the internal IT network by allowing an administrator to restrict the access of a network through a variety of means including MAC address, IP, UDP/TCP, and even VLAN ID.





Advanced Features

- Loopback detection auto disables port when loop is detected
- Cable Diagnostics allows administrator to determine cable status
- Configurable MDI/MDI-X

Online Help

- · Link to local support web site
- · Downloadable user guide
- · Real-time manual checks

Web Smart 24/48-Port Switches with 2GbE and 2 Combo SFP Slots

Versatile Management

The new generation of Web Smart Switches provides growing businesses simple and easy management of their network using an intuitive SmartConsole Utility or web-based management interface that enables administrators to remotely control their network down to the port level. The SmartConsole Utility easily allows customers to discover multiple D-Link Web Smart Switches within the same L2 network segment. With this utility, users do not need to change the IP address of their PC and it provides an easy initial setting of the Smart Switches. Switches with the same L2 network segment that are connected to the user's local PC are displayed on screen for instant access. This allows extensive switch configuration settings and basic configuration of

discovered devices such as password changes and firmware upgrades.

The DES-1210 Series also supports D-View 6.0 and Command Line Interface (CLI) through Telnet. D-View 6.0 is a Network Management System that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security in a consistent way. D-View 6.0 provides a useful set of tools for network administrators who want to effectively manage device configurations, fault tolerance, performance, and security. CLI management through Telnet makes the adjustment of basic settings such as password changes or firmware and configuration file uploads possible.





	DES-1210-28	DES-1210-52
Number of Ports	24 10/100Mbps2 10/100/1000BASE-T2 combo 10/100/1000BASE-T/SFP	48 10/100Mbps2 10/100/1000BASE-T2 combo 10/100/1000BASE-T/SFP
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 Auto-negotiation IEEE 802.3x Flow Control	 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 Auto-negotiation IEEE 802.3x Flow Control
Network Cables	UTP Cat.5, Cat.5e (100m max)EIA/TIA-568 100-ohm STP (100m max)	UTP Cat.5, Cat.5e (100m max)EIA/TIA-568 100-ohm STP (100m max)
Full/Half Duplex	Full/half duplex for 10/100Mbps speedsFull duplex for Gigabit speed	Full/half duplex for 10/100Mbps speedsFull duplex for Gigabit speed
Media Interface Exchange	Auto MDI/MDI-X adjustment for all twisted pair ports	Auto MDI/MDI-X adjustment for all twisted pair po
Switching Capacity	• 12.8Gbps	• 17.6Gbps
Transmission Method	Store-and-forward	Store-and-forward
MAC Address Table	8K entries per device	8K entries per device
MAC Address Update	 Up to 256 static MAC entries Enable/disable auto-learning of MAC addresses	 Up to 256 static MAC entries Enable/disable auto-learning of MAC addresses
Maximum 64 bytes packet forwarding rate	• 9.5Mpps	• 13.1Mpps

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RAM Buffer	• 512KB per device	• 1MB per device
AC Input	• 100 to 240 VAC 50/60 internal universal power supply	• 100 to 240 VAC 50/60 internal universal power suppl
Maximum Power Consumption	• 17.6W	• 28.9W
Standby Power Consumption	• 7.6W/110V, 7.9W/240V	• 13.2W/110V, 13.3W/240V
Fan Quantity	• 0	• 0
Acoustics	• 0dBA	• OdBA
Heat Dissipation	• 60.05 BTU/hr	• 98.61 BTU/hr
Operating Temperature	• 32o to 104oF (0o to 40oC)	• 32° to 104°F (0° to 40°C)
Storage Temperature	• 14o to 158oF (-10o to 70oC)	• 14° to 158°F (-10° to 70°C)
Operating Humidity	• 10% to 95% non-condensing	• 10% to 95% non-condensing
Storage Humidity	5% to 95% non-condensing	• 5% to 95% non-condensing
Dimensions	 17.3in x 8.3in x 1.7in (440mm x 210mm x 44mm) 19-inch standard rack mounting width, 1U height 	 17.4in x 9.8in x 1.7in (441mm x 250mm x 44mm) 19-inch standard rack mounting width, 1U height
Weight	• 5.73 lbs (2.6kg)	• 7.27 lbs (3.3kg)
Diagnostic LEDs	 Power (per device) Link/Activity/Speed (per 10/100/1000Mbps port, per 10/100Mbps port, per SFP port) 	 Power (per device) Link/Activity/Speed (per 10/100/1000Mbps port, per 10/100Mbps port, per SFP port)
Emission (EMI)	FCC Class A, CE Class A, VCCI Class A, C-Tick	• FCC Class A, CE Class A, VCCI Class A, C-Tick
MTBF	• 419,467 hours	• 289,012 hours
Safety	• cUL, LVD	• cUL, LVD
oftware Features		
2 Features		
MAC Address Table	• 8K	
Flow Control	802.3x Flow Control	HOL Blocking Prevention
IGMP Snooping	 IGMP v1/v2 Snooping Supports at least 64 static multicast addresses Supports IGMP Snooping Querier 	Supports 256 IGMP groups IGMP per VLAN
Spanning Tree Protocol	• 802.1D STP	• 802.1w RSTP
Loopback Detection	• Yes	
802.3ad Link Aggregetion	8 groups per device/8 ports per group	
Port Mirroring	One-to-One, Many-to-One, Supports Mirroring for Tx/Rx	/Both
Port Mirroring Cable Diagnostics	One-to-One, Many-to-One, Supports Mirroring for Tx/Rx Yes	/Both
	7 7 7 11	/Both
Cable Diagnostics	• Yes	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X	• Yes	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN	• Yes • Yes	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q VLAN Group	Yes Yes 2003 Edition	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q	Yes Yes A Yes	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q VLAN Group Management VLAN	Yes Yes A 2003 Edition Max 256 static VLAN groups, max 4094 VID Supports 1 Management VLAN	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q VLAN Group Management VLAN Asymmetric VLAN Auto Voice VLAN	Yes Yes A 2003 Edition Max 256 static VLAN groups, max 4094 VID Supports 1 Management VLAN Yes	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q VLAN Group Management VLAN Asymmetric VLAN Auto Voice VLAN QoS (Quality of Service)	Yes Yes A 2003 Edition Max 256 static VLAN groups, max 4094 VID Supports 1 Management VLAN Yes	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q VLAN Group Management VLAN Asymmetric VLAN Auto Voice VLAN QOS (Quality of Service) 802.1p Quality of Service	Yes Yes 2003 Edition Max 256 static VLAN groups, max 4094 VID Supports 1 Management VLAN Yes Max. 10 user defined OUI, Max. 8 default OUI 4 Queues per port	/Both
Cable Diagnostics Configurable Auto MDI/MDI-X /LAN 802.1Q VLAN Group Management VLAN Asymmetric VLAN Auto Voice VLAN QoS (Quality of Service)	Yes Yes 2003 Edition Max 256 static VLAN groups, max 4094 VID Supports 1 Management VLAN Yes Max. 10 user defined OUI, Max. 8 default OUI	/Both

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Access Control List		
Maximum profiles	• 50	
Maximum rules shared by profiles	• 240	
ACL based on	MAC Address, IPv4 Address (ICMP/IGMP/TCP/UDP), VLAN ID, 802.1p Priority, DSCP	
ACL Actions	Permit, Deny	
Security		
802.1X Port-based Access Control	Default 802.1X forwarding	
Port Security	Supports up to 64 MAC addresses per port	
Traffic Control	Broadcast/Multicast/Unicast Storm Control	
Static MAC	Supports 256 Static MAC entries	
D-Link Safeguard Engine	• Yes	
MIB		
MIB	• 1213 MIB II, 1493 Bridge MIB, 1907 SNMP v2 MIB, 1215 Trap Convention MIB, 2233 Interface Group MIB, D-Link Private MIB	
RFC Standard Compliance		
RFC	 RFC 768 UDP, RFC 791 IP, RFC 792 ICMP, RFC 793 TCP, RFC 826 ARP, RFC 854 Telnet Server, RFC 855 Telnet Server, RFC 856 Telnet Binary Transmission, RFC 858 Telnet Server, RFC 896 Congestion Control in TCP/IP Network, RFC 90 Reverse Address Resolution Protocol, RFC 951 BootP Client, RFC 1155 MIB, RFC 1157 SNMP v1, RFC 1191 Path MTL Discovery, RFC 1212 Concise MIB Definition, RFC 1213 MIB II, IF MIB, RFC 1215 Traps for use with the SNMP, RFC 1239 Standard MIB, RFC 1350 TFTP, RFC 1493 Bridge MIB, RFC 1519 CIDR, RFC 1945 HTTP/1.0, RFC 2131 DHCP, RFC 2132 DHCP Options and BOOTP Vendor Extensions, RFC 2138 Radius Authentication, RFC 2233 Interface MIB, RFC 2578 Structure of Management Information Version 2 (SMIv2), RFC 2647 802.1p, RFC 3416 SNMP, RFC 3417 SNMI 	
Management		
Web-based GUI	Supports IPv4	
Compact CLI through Telnet	• Yes	
Telnet Server	Maximum connection is 4, Supports IPv4	
TFTP Client	Supports IPv4	
SNMP	• Supports v1/v2c	
SNMP Trap	• Yes	
Trap for SmartConsole Utility	• Yes	
System Log	Max. 500 log entries, supports IPv4 log server	
BootP/DHCP Client	• Yes	
Time Setting	• SNTP	
Warranty Information		
Warranty	• Limited Lifetime ¹	
Ordering Information		
Part Number	Description	
DES-1210-28	Web Smart 24-Port 10/100 Switch, 4GbE, 2 Combo SFP Slots	
DES-1210-52	Web Smart 48-Port 10/100 Switch, 4GbE, 2 Combo SFP Slots	
DEM-211	100BASE-FX Multimode LC Transceiver, up to 2Km	
DEM-310GT	• 1000BASE-LX SFP Module, up to 10Km	
DEM-311GT	• 1000BASE-SX SFP Module, up to 550m	

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For more information

D-Link Systems | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com



of their respective owners. Visit www.dlink.com for more details.

Limited Lifetime Warranty available only in the USA and Canada.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.