

Product Highlights

10 Gigabit Ethernet Connection

10 Gigabit Ethernet ensures that high-bandwidth demands can be fulfilled easily and allows for device flexibility across your network

Save Energy, Save Money

D-Link Green technology conserves energy by powering down unused ports, saving you money while reducing your carbon footprint

Layer 3 Lite Functions

Wired speed inter-VLAN routing helps by reducing the pressure on routers and backbone networks, improving the overall network efficiency





DXS-1210 Series

10 Gigabit Ethernet Smart Managed Switches

Features

Green Technology

- Power saving via the following features:
- Link Status detection
- LED Shut-Off
- Port Shut-Off
- System Hibernation

Security Features

- Access Control List
- IP-MAC-Port Binding
- Clientless MAC/Web access control
- D-Link Safeguard Engine
- Port Security
- ARP Spoofing Prevention

Intuitive Management

- D-Link Network Assistant Utility or Web-based GUI
- Built-in SNMP MIB for remote NMS (D-View 7)
- · CLI through Telnet

Advanced Features

- Auto Surveillance VLAN
- Auto Voice VLAN
- · Loopback Detection
- · Cable Diagnostics
- Static Route
- LLDP/LLDP-MED

Overview

D-Link's DXS-1210 series 10 Gigabit Ethernet Smart Managed Switches are cost effective 10 GbE switches capable of servicing a range of network needs in any business. With high performance and low latency, these switches can fulfill the needs for virtualization, cloud services and server-to-server applications, making them perfect for SMB networking applications.

DXS-1210 series switches offer a combination of 10GbE copper and fiber ports. The 10GBASE-T copper ports utilize RJ45 interfaces and support 10 Gigabit speeds over CAT6a/CAT7 LAN cabling up to 100m. The 10GbE fiber ports can be connected to other 10GbE ports with low cost Direct Attach Copper (DAC) cables, or with SFP+ optical transceivers on multimode or single-mode fiber optic cabling.

Energy Saving

Incorporating D-Link Green technology, these switches are capable of power-saving without sacrificing operational performance or functionality. They feature built-in smart fans with internal heat sensors that monitor and detect temperature changes and react accordingly by utilizing different fan speeds for different temperatures. At lower temperatures, the fans run slower, reducing the switch's power consumption and noise. Link status drastically reduces power consumption by automatically toggling all ports without a link to sleep mode. The DXS-1210 switches take the approach to green IT one step further by incorporating a special chipset with advanced silicon technology for efficient use of energy.

Extensive Management and Layer 2 Features

The DXS-1210 Series comes with a complete lineup of L2 features, including port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). Network maintenance features include loopback detection



and cable diagnostics. Loopback detection significantly speeds up troubleshooting by automatically detecting and shutting down difficult to diagnose switching loops. The cable diagnostic feature, designed primarily for administrators and customer service representatives, determines the quality of connected cables, and quickly discovers errors, allowing hassle-free diagnostics and maintenance.

Quality of Service and Bandwidth Control

The DXS-1210 Series supports Auto Surveillance VLAN (ASV) and Auto Voice VLAN, which are best suited for video surveillance and VoIP deployments. Auto Surveillance VLAN consolidates data and surveillance video transmission through a single switch, thus sparing businesses the expense of dedicated hardware and facilities. ASV also ensures quality real-time video monitoring and control without compromising the transmission of conventional network data. Auto Voice VLAN technology enhances the VoIP service by automatically placing voice traffic from IP phones to a designated VLAN. With higher priority and an individual VLAN, these features guarantee the quality and security of VoIP traffic. The Differentiated Service Code Point (DSCP) markings on Ethernet packets enable different levels of service to be assigned to network traffic. As a result, these voice and video packets take precedence over other packets. In addition, with bandwidth control, network administrators can reserve bandwidth for important functions that require higher priority or more bandwidth.

Secure your Network

D-Link's innovative Safeguard Engine™ protects the switches against traffic flooding caused by malicious attacks. The DXS-1210 Series supports 802.1X port-based and host-based authentication, allowing the network to be authenticated through external RADIUS servers. The Access Control List (ACL) feature enhances network security and helps to protect the internal IT network. The DXS-1210 Series also features Address Resolution Protocol (ARP) spoofing prevention, which protects from attacks on the network that may allow an intruder to sniff data frames, modify traffic, or bring traffic to a halt altogether by sending

fake ARP messages. To prevent ARP spoofing attacks, the switches use packet control ACLs to block invalid packets that contain fake ARP messages. For added security, the DHCP server screening feature filters DHCP replies on unauthorized ports to prevent them from being assigned an IP address.

Versatile Management

The DXS-1210 Series comes with the D-Link Network Assistant (DNA) utility that simplifies the configuration of devices that support the D-Link Discovery Protocol. The D-Link Network Assistant utility easily allows customers to discover multiple D-Link Smart Managed Switches within the same L2 network segment and displays them on screen for instant access. With this utility, users do not need to change the IP address of their PC. This utility further allows for simultaneous configuration and basic setup of all discovered devices, including password changes and firmware upgrades. The DXS-1210 Series also supports D-View 7 and Command Line Interface (CLI) through Telnet. D-View 7 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

Seamless Integration

The DXS-1210 Series switches' copper ports can support Gigabit connections over existing CAT5/5e twisted-pair cables, and can support 10-Gigabit connections (10GBASE-T) over CAT6 and above. The DXS-1210-12TC has eight 10GBASE-T ports, two SFP+ ports and two 10GBASE-T/SFP+ combo ports, while the DXS-1210-12SC has ten 10G SFP+ ports and two 10GBASE-T/SFP+ combo ports. This means they provide a more flexible solution for upstream or downstream server connections, making network administration easy.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DXS-1210 Series 10 Gigabit Ethernet Smart Managed switches to further its commitment to product quality and long term customer confidence.





Technical Specifications			
General			
Model	DXS-1210-12TC	DXS-1210-12SC	
		D-Julimia.	
nterfaces	8 x 10GBASE-T copper ports	10 x 10G SFP+ optical ports	
interfaces	2 x 10G SFP+ optical ports	2 x 10GBASE-T/SFP+ combo ports	
	2 x 10GBASE-T/SFP+ combo ports		
Port Standard & Functions	IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3az compliance IEEE 802.3an 10GBASE-T 10GbE over copper IEEE 802.3ae 10GbE over fiber IEEE 802.3z 1000BASE-X Auto MDI/MDIX support for 1000/10GBASE-T		
Network Cables for 10GBASE-T	CAT-6 (30m max) CAT-6A or CAT-7 (100m max)		
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair	ports	
Performance			
Switching Capacity	240 Gbps	240 Gbps	
Maximum Packet Forwarding Rate	178.56 Mpps	178.56 Mpps	
Transmission Method	Store-and-forward		
MAC Address Table	Up to 16,000 entries per device		
Physical/Environmental			
AC Input	100 to 240 VAC		
Maximum Power Consumption	90.81 watts	43.81 watts	
Standby Power Consumption	42.65 watts	25.22 watts	
Operating Temperature	23°F to 122°F (-5°C to 50°C)		
Storage Temperature	-40°F to 158°F (-40°C to 70°C)		
Operating Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		
Dimensions (L x W x H)	17.36 x 8.26 x 1.73 inches (440 x 210 x 44 mm)		
Weight	6.94 lbs (3.15 kg)	6.02 lbs (2.73 kg)	
Diagnostic LEDs	Link/Activity/Speed (per 10GBASE-T port) Link/Activity/Speed (per 10G SFP+ port) Power/Fan (per device)		
Certifications	CE FCC C-Tick VCCI BSMI CCC		
Safety	CUL CB CE CCC BSMI		



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DHCP Server Screening IP-MAC-Port Binding DHCP Snooping¹ DHCP Snooping¹ IP Source Guard¹ Dynamic ARP Inspection¹ IPv6 Snooping¹ ARP Spoof IPv6 Source Guard¹ Max. 12 DHCPv6 Guard¹ Dos Attacl IPv6 ND Inspection¹ Port Secur IPv6 Route Advertisement (RA) Guard¹ Support	gmentation
IP-MAC-Port Binding • Support • DHCP Snooping¹ • IP Source Guard¹ • Dynamic ARP Inspection¹ • IPv6 Snooping¹ • IPv6 Snooping¹ • Max. 12 • DHCPv6 Guard¹ • DoS Attacl • IPv6 ND Inspection¹ • Support • Max. 12 • DHCPv6 Route Advertisement (RA) Guard¹ • Support • Support • Support • Support • Max. 12 • DHCPv6 Route Advertisement (RA) Guard¹ • Support	÷1/2
DHCP Snooping¹ SSL • IP Source Guard¹ • Support • Dynamic ARP Inspection¹ • Support • IPv6 Snooping¹ ARP Spoof • IPv6 Source Guard¹ • Max. 12 • DHCPv6 Guard¹ DoS Attact • IPv6 ND Inspection¹ Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	
• IP Source Guard¹ • Support • Dynamic ARP Inspection¹ • Support • IPv6 Snooping¹ • IPv6 Source Guard¹ • Max. 12 • DHCPv6 Guard¹ • DoS Attact • IPv6 ND Inspection¹ • Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	t IPv4/ IPv6
Dynamic ARP Inspection ¹ Support IPv6 Snooping ¹ ARP Spoof IPv6 Source Guard ¹ • Max. 12 DHCPv6 Guard ¹ Dos Attacl IPv6 ND Inspection ¹ Port Secur IPv6 Route Advertisement (RA) Guard ¹ Support	
• IPv6 Snooping¹ ARP Spoof • IPv6 Source Guard¹ • Max. 12 • DHCPv6 Guard¹ DoS Attacl • IPv6 ND Inspection¹ Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	t v1/v2/v3
• IPv6 Snooping¹ ARP Spoof • IPv6 Source Guard¹ • Max. 12 • DHCPv6 Guard¹ DoS Attacl • IPv6 ND Inspection¹ Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	t IPv4/IPv6
• IPv6 Source Guard¹ • Max. 12 • DHCPv6 Guard¹ DoS Attacl • IPv6 ND Inspection¹ Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	fing Prevention ¹
• DHCPv6 Guard¹ DoS Attacl • IPv6 ND Inspection¹ Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	
• IPv6 ND Inspection¹ Port Secur • IPv6 Route Advertisement (RA) Guard¹ • Support	k Prevention
• IPv6 Route Advertisement (RA) Guard ¹ • Support	
	ts up to 6656 MAC addresses per port
Бирисис	Address Detection
perations, Administration and Management Cable Diagnostics DAM)	



AAA	Web-based Access Control (WAC)¹ • Support local/RADIUS database • Support Port-based access control • Support Host-based access control • Support Dynamic VLAN Assignment • Identity-driven Policy (VLAN/ACL/QoS) Assignment 802.1X Authentication • Support Dynamic VLAN Assignment • Identity-driven Policy (VLAN/ACL/QoS) Assignment • Identity-driven Policy (VLAN/ACL/QoS) Assignment • Supports local/RADIUS database • Supports Port-based access control • Supports Host-based access control • Supports EAP, OTP, TLS, TTLS, PEAP	Support IPv4/IPv6 RADIUS Server Support IPv4/IPv6 TACACS+1 Guest VLAN Compound Authentication1 Authentication for management access Authentication Database Failover1 MAC-based Access Control (MAC)1 • Support local/RADIUS database • Support Port-based access control • Support Host-based access control • Support Dynamic VLAN Assignment • Identity-driven Policy (VLAN/ACL/QoS) Assignment
Management	Web-based GUI D-Link Network Assistant Utility Compact CLI Telnet Server TFTP Client Configurable MDI/MDIX SNMP • Supports v1/v2c/v3 SNMP Trap Smart Wizard LLDP LLDP-MED DHCP Relay ¹	System Log BootP/DHCP Client SNTP ICMP v6 IPv4/v6 Dual Stack DHCP Auto Configuration¹ RMON v1/v2¹ Trusted Host Dual Images Dual Configurations DNS Client¹ Debug command
Green v3.0 Technology	Power Saving by: • LED Shutoff	System Hibernation Port Shutoff
MIB/RFC Standards	RFC 783 TFTP RFC 951 BootP/DHCP Client RFC 1157 SNMP v1, v2, v3 RFC 1213 MIB II RFC 1215 MIB Traps Convention RFC 1350 TFTP RFC 1493 Bridge MIB RFC 1769 SNTP RFC 1542 BootP/DHCP Client RFC 1901 SNMP v1, v2, v3 RFC 1907 SNMP v2 MIB RFC 1908 SNMP v1, v2, v3 RFC 2131 BootP/DHCP Client RFC 2138 RADIUS Authentication¹ RFC 2139 RADIUS Authentication RFC 2233 Interface Group MIB	RFC 2246 SSL RFC 2475 RFC 2570 SNMP v1, v2, v3 RFC 2575 SNMP v1, v2, v3 RFC 2598 CoS RFC 2618 RADIUS Authentication¹ RFC 2819 RMON v1 RFC 2865 RADIUS Authentication RFC 3164 System Log RFC 3195 System Log RFC 3411-17 SNMP D-Link Private MIB LLDP MIB Zone Defense MIB 2233 Interface Group MIB

Ordering Information				
Model	Description Warn	ranty		
DXS-1210-12TC	12-port 10GBASE-T Web Smart Switch including 8 10GBASE-T ports, 2 10G SFP+ Limi ports, and 2 10GBASE-T/SFP+ combo ports	ted Lifetime ²		
DXS-1210-12SC	12-port 10G SFP+ Web Smart Switch including 10 10G SFP+ ports and 2 Limi 10GBASE-T/SFP+ combo ports	ted Lifetime ²		
Optional 10 Gigabit Ethern	net SFP+ Direct Attach Cables			
DEM-CB100S	10GbE SFP+ to SFP+ 1m Direct Attach Cable	10GbE SFP+ to SFP+ 1m Direct Attach Cable		
DEM-CB300S	10GbE SFP+ to SFP+ 3m Direct Attach Cable	10GbE SFP+ to SFP+ 3m Direct Attach Cable		
DEM-CB700S	10GbE SFP+ to SFP+ 7m Direct Attach Cable	10GbE SFP+ to SFP+ 7m Direct Attach Cable		
Optional Gigabit Ethernet	SFP Transceivers			
DGS-712	1000BASE-T Copper SFP Transceiver	1000BASE-T Copper SFP Transceiver		
DEM-310GT	1000BASE-LX Single-Mode, 10KM	1000BASE-LX Single-Mode, 10KM		
DEM-311GT	1000BASE-SX Multi-mode, 550M	1000BASE-SX Multi-mode, 550M		
Optional 10 Gigabit Ethern	net SFP+ Transceivers			
DEM-431XT-DD	10GBASE-SR Multi-Mode (with DDM)	10GBASE-SR Multi-Mode (with DDM)		
DEM-432XT-DD	10GBASE-LR Single-Mode, 10KM (with DDM)	10GBASE-LR Single-Mode, 10KM (with DDM)		
DEM-435XT-DD	10GBASE-LRM Multi-Mode, 220M (with DDM)			

For more information

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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 depoited herein.





¹This feature will be supported in a future firmware release.

² Limited Lifetime Warranty available in U.S.A. only. Updated 14-June-2016 DXS-1210_REVA_DATASHEET_1.03_EN_US.pdf