



Product Highlights

10 Gigabit Ethernet Connection

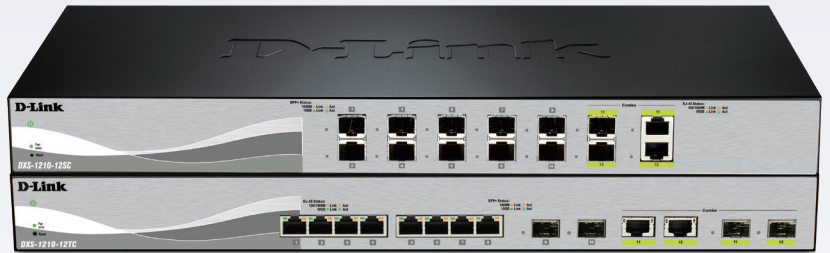
10 Gigabit Ethernet ensures that high-bandwidth demands can be fulfilled easily and allows for device flexibility across your network

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



Limited
Lifetime
Warranty

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

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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
		
Interfaces	8 x 10GBASE-T copper ports 2 x 10G SFP+ optical ports 2 x 10GBASE-T/SFP+ combo ports	10 x 10G SFP+ optical 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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Features		
L2 Features	<p>MAC Address Table</p> <ul style="list-style-type: none"> Up to 16K entries <p>Static MAC Addresses</p> <ul style="list-style-type: none"> 1K <p>IGMP Snooping</p> <ul style="list-style-type: none"> IGMP v1/v2/v3 Snooping Supports 384 IGMP groups Supports at least 128 static multicast addresses Per VLAN IGMP Snooping Support host-based fast leave <p>MLD Snooping</p> <ul style="list-style-type: none"> MLD v1/v2 Snooping Support 384 groups Support 128 static multicast addresses Support host-based fast leave <p>LLDP</p> <p>LLDP-MED</p>	<p>Spanning Tree Protocol</p> <ul style="list-style-type: none"> 802.1D STP 802.1w RSTP 802.1s MSTP <p>Flow Control</p> <ul style="list-style-type: none"> 802.3x Flow Control HOL Blocking Prevention <p>Port Mirroring</p> <ul style="list-style-type: none"> One-to-One Many-to-One Supports Mirroring for Tx/Rx/Both <p>802.3ad Link Aggregation</p> <ul style="list-style-type: none"> Maximum of 8 groups/8 ports per group <p>Jumbo Frame</p> <ul style="list-style-type: none"> Up to 9KB <p>Loopback Detection</p> <p>ERPS (Ethernet Ring Protection Switching)</p>
VLAN	<p>802.1Q VLAN</p> <p>Port-based VLAN</p> <p>4K VLAN Groups</p> <p>Configurable VID</p> <ul style="list-style-type: none"> 1-4094 	<p>Voice VLAN</p> <p>Auto Surveillance VLAN</p> <p>GVRP¹</p> <p>Asymmetric VLAN</p>
Quality of Service (QoS)	<p>CoS based on</p> <ul style="list-style-type: none"> 802.1p Priority Queues DSCP ToS IPv6 Traffic Class TCP/UDP port VLAN ID MAC Address Ether Type IP Address Protocol Type IPv6 Flow Label 	<p>802.1p Priority Queue</p> <p>8 queues per port</p> <p>Queue Handling</p> <ul style="list-style-type: none"> Strict Weighted Round Robin (WRR) Deficit Round Robin (DRR) Weighted Deficit Round Robin (WDRR) Strict + WDRR <p>Bandwidth Control</p> <ul style="list-style-type: none"> Port-based (Ingress/Egress, min. granularity 64 Kbps) iSCSI Awareness¹
L3 Features	<p>IP Interface</p> <ul style="list-style-type: none"> Supports 8 IPv4/v6 interfaces <p>ARP</p> <ul style="list-style-type: none"> 768 Static ARP <p>Default Route</p>	<p>IPv6 Neighbor Discovery (ND)</p> <p>Static Route</p> <ul style="list-style-type: none"> Max. 64 IPv4 entries Max. 64 IPv6 entries
Access Control List (ACL)	<p>Max. 50 access list</p> <p>Max. 256 ACL rules</p> <p>Max. 50 VLAN access map¹</p> <p>ACL based on</p> <ul style="list-style-type: none"> 802.1p priority VLAN¹ MAC address Ether type 	<ul style="list-style-type: none"> IP address DSCP Protocol type TCP/UDP port number IPv6 Traffic Class IPv6 flow label
Security	<p>Broadcast/Multicast/Unicast Storm Control</p> <p>D-Link Safeguard Engine</p> <p>DHCP Server Screening</p> <p>IP-MAC-Port Binding</p> <ul style="list-style-type: none"> DHCP Snooping¹ IP Source Guard¹ Dynamic ARP Inspection¹ IPv6 Snooping¹ IPv6 Source Guard¹ DHCPv6 Guard¹ IPv6 ND Inspection¹ IPv6 Route Advertisement (RA) Guard¹ 	<p>Traffic Segmentation</p> <p>SSH¹</p> <ul style="list-style-type: none"> Support v1/ v2 Support IPv4/ IPv6 <p>SSL</p> <ul style="list-style-type: none"> Support v1/v2/v3 Support IPv4/IPv6 <p>ARP Spoofing Prevention¹</p> <ul style="list-style-type: none"> Max. 127 entries <p>DoS Attack Prevention</p> <p>Port Security</p> <ul style="list-style-type: none"> Supports up to 6656 MAC addresses per port <p>Duplicate Address Detection</p>
Operations, Administration and Management (OAM)	Cable Diagnostics	

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AAA	<p>Web-based Access Control (WAC)¹</p> <ul style="list-style-type: none"> • 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 <p>802.1X Authentication</p> <ul style="list-style-type: none"> • Support Dynamic VLAN 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 	<p>Support IPv4/IPv6 RADIUS Server</p> <p>Support IPv4/IPv6 TACACS+¹</p> <p>Guest VLAN</p> <p>Compound Authentication¹</p> <p>Authentication for management access</p> <p>Authentication Database Failover¹</p> <p>MAC-based Access Control (MAC)¹</p> <ul style="list-style-type: none"> • 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	<p>Web-based GUI</p> <p>D-Link Network Assistant Utility</p> <p>Compact CLI</p> <p>Telnet Server</p> <p>TFTP Client</p> <p>Configurable MDI/MDIX</p> <p>SNMP</p> <ul style="list-style-type: none"> • Supports v1/v2c/v3 <p>SNMP Trap</p> <p>Smart Wizard</p> <p>LLDP</p> <p>LLDP-MED</p> <p>DHCP Relay¹</p>	<p>System Log</p> <p>BootP/DHCP Client</p> <p>SNTP</p> <p>ICMP v6</p> <p>IPv4/v6 Dual Stack</p> <p>DHCP Auto Configuration¹</p> <p>RMON v1/v2¹</p> <p>Trusted Host</p> <p>Dual Images</p> <p>Dual Configurations</p> <p>DNS Client¹</p> <p>Debug command</p>
Green v3.0 Technology	<p>Power Saving by:</p> <ul style="list-style-type: none"> • LED Shutoff 	<ul style="list-style-type: none"> • System Hibernation • Port Shutoff
MIB/RFC Standards	<p>RFC 783 TFTP</p> <p>RFC 951 BootP/DHCP Client</p> <p>RFC 1157 SNMP v1, v2, v3</p> <p>RFC 1213 MIB II</p> <p>RFC 1215 MIB Traps Convention</p> <p>RFC 1350 TFTP</p> <p>RFC 1493 Bridge MIB</p> <p>RFC 1769 SNTP</p> <p>RFC 1542 BootP/DHCP Client</p> <p>RFC 1901 SNMP v1, v2, v3</p> <p>RFC 1907 SNMP v2 MIB</p> <p>RFC 1908 SNMP v1, v2, v3</p> <p>RFC 2131 BootP/DHCP Client</p> <p>RFC 2138 RADIUS Authentication¹</p> <p>RFC 2139 RADIUS Authentication</p> <p>RFC 2233 Interface Group MIB</p>	<p>RFC 2246 SSL</p> <p>RFC 2475</p> <p>RFC 2570 SNMP v1, v2, v3</p> <p>RFC 2575 SNMP v1, v2, v3</p> <p>RFC 2598 CoS</p> <p>RFC 2618 RADIUS Authentication¹</p> <p>RFC 2819 RMON v1</p> <p>RFC 2865 RADIUS Authentication</p> <p>RFC 3164 System Log</p> <p>RFC 3195 System Log</p> <p>RFC 3411-17 SNMP</p> <p>D-Link Private MIB</p> <p>LLDP MIB</p> <p>Zone Defense MIB</p> <p>2233 Interface Group MIB</p>

DXS-1210 Series

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

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

²Limited Lifetime Warranty available in U.S.A. only.

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DXS-1210_REVA_DATASHEET_1.03_EN_US.pdf

For more information

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