

Highlights

10 Gigabit Ethernet Connection

Each copper interface supports 10 GBASE-T Multi-Gigabit (100M/1G/2.5G/5G/10G) speeds with auto-negotiation for use in various scenarios

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 of routers and backbone networks, improving the overall network efficiency



DXS-1210 Series 10 Gigabit/Multi-Gigabit Ethernet Smart Managed Switches

Features

10 Gigabit/Multi-Gigabit

• 10G / 5G / 2.5G / 1G / 100M

Green Technology

- Power saving via the following features:
 - Energy Efficiency Ethernet (EEE)
 - LED Shut-Off
 - Port Shut-Off
 - System Hibernation

Security Features

- Access Control List
- D-Link Safeguard Engine
- Port Security

Intuitive Management

- Web-based GUI
- Built-in SNMP MIB for remote NMS (D-View)
- Full CLI through console and Telnet
- D-Link Nuclias Connect

Advanced Features

- Auto Surveillance VLAN
- Auto Voice VLAN
- Loopback Detection
- Cable Diagnostics
- Static Route
- LLDP/LLDP-MED
- Multi-Process RSTP

The D-Link DXS-1210 Series 10 Gigabit/Multi-Gigabit Ethernet Smart Managed Switches are a cost-effective 10 Gigabit switch series capable of servicing a range of network needs in any business. Supporting 10GBASE-T/SFP+ combo ports, this series provides connection flexibility across a network allowing easier network integration. With high performance and low latency, the DXS-1210 Series fulfills the needs for virtualization and server-to-server applications, making it perfect for Small-to-Medium-Business (SMB) customers.

Energy Efficient

By incorporating D-Link Green technology, this series of switches is capable of saving power without sacrificing operational performance or functionality. The switches 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 will run slower, reducing the switch's power consumption and noise. The DXS-1210 Series takes 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, includes 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 cable quality 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 VoIP and video surveillance deployments. Auto Surveillance VLAN is a new, industry-leading technology that consolidates data and surveillance video transmission through a single DXS-1210 Series 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 guality 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.

Seamless Integration

The DXS-1210 Series comes with both RJ-45 and SFP+ ports capable of connecting to Cat. 6 and fiber for 10G Ethernet. The DXS-1210-10TS has 8 10GBASE-T ports and 2 SFP+ ports, the DXS-1210-12TC has an additional 2 10GBASE-T/SFP+ combo ports, while the DXS-1210-12SC has 10 10G SFP+ ports and 2 10GBASE-T/SFP+ combo ports. The DXS-1210-16TC also has 12 10GBASE-T ports, 2 SFP+ ports, and 2 10GBASE-T/SFP+ combo ports. This means the DXS-1210 Series can provide a flexible solution for upstream or downstream server connections, making network administration easy.

Versatile Management

The DXS-1210 Series also supports D-View, Nuclias Connect, and a full Command Line Interface (CLI) through the console port and Telnet. D-View is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security. Nuclias Connect is D-Link's centralized management solution for Small-to-Medium-Sized Business (SMB) networks. Nuclias Connect makes it easier to analyze, automate, configure, optimize, scale, and secure your network — delivering the convenience of an Enterprise-wide management solution, at an SMB price.

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. For added security, the DHCP server screening feature filters DHCP replies on unauthorized ports to prevent them from being assigned an IP address.

Technical Specifications				
General				
Model	• DXS-1210-10TS	• DXS-1210-12TC	• DXS-1210-12SC	• DXS-1210-16TC
HW Version	B1			
Interfaces	 8 x 100M/1G/2.5G/5G/10G BASE-T ports 2 x SFP+ ports 	 8 x 100M/1G/2.5G/5G/10G BASE-T ports 2 x SFP+ ports 2 x 1G/10GBASE-T / SFP+ combo ports 	 10 x SFP+ ports 2 x 1G/10GBASE-T / SFP+ combo ports 	 12 x 100M/1G/2.5G/5G/10G BASE-T ports 2 x SFP+ ports 2 x 1G/10GBASE-T / SFP+ combo ports
Console Port	RJ-45 console port			
Port Standard & Functions	 IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 5Gbps and 2.5Gbps Ethernet Over Copper Twisted Pair Cable IEEE 802.3an 10GBASE-T 10 Gigabit Ethernet IEEE 802.3ae 10GbE over fiber IEEE 802.3z 1000BASE-X Auto MDI/MDIX support for 100BASE-T/1GBASE-T/2.5GBASE-T/5GBASE-T/10GBASE-T 			



Network Cables for 10GBASE-T	• Cat. 6 (30 m max) • Cat. 6A or Cat. 7 (100 m max)			
Media Interface Exchange	Auto MDI/MDIX adjustment for all twisted-pair ports			
Performance				
Switching Capacity	• 200 Gbps	• 240 Gbps	• 240 Gbps	• 320Gbps
Maximum Packet Forwarding Rate	• 148.8 Mpps	• 178.56 Mpps	• 178.56 Mpps	• 238.08 Mpps
Transmission Method	Store-and-forward			
MAC Address Table	Up to 32,000 entries per device			
Physical/Environmental				
AC Input	• 100 to 240 VAC			
Maximum Power Consumption	• 43.26 W	• 59.1 W	• 27.4 W	• 64.2 W
Standby Power Consumption	• 19.39 W	• 21.1 W	• 11.2 W	• 31.7 W
Operating Temperature	• -5 to 50 °C (23 to 122 °F)			
Storage Temperature	 -40 to 70 °C (-40 to 158 °F) 			
Operating Humidity	• 0% to 95% non-condensing			
Storage Humidity	• 0% to 95% non-condensing			
Dimensions (L x W x H)	• 330 x 200 x 44 mm (12.99 x 7.87 x 1.73 in)	• 440 x 210 x 44 mm (17.36 x 8.26 x 1.73 in)		
Weight	• 2.165 kg (4.77 lbs)	• 3.041 kg (6.70 lbs)	• 2.718 kg (5.99 lbs)	• 3.123 kg (6.89 lbs)
Diagnostic LEDs	Link/Activity/Speed (Per 10GBASE-T port) Link/Activity/Speed (Per 10G SFP+ port) Power Console Fan error			
EMI/EMC Certifications	• CE • FCC • IC • RCM • VCCI • BSMI			
Safety Certifications	• cUL • CB • BSMI			



Software			
L2 Features	 MAC Address Table Up to 32K entries Static MAC Addresses 128 IGMP Snooping IGMP v1/v2 Snooping IGMP v3 awareness Supports 384 IGMP groups Supports at least 128 static multicast addresses Per VLAN IGMP Snooping Support host-based fast leave MLD Snooping MLD v1 Snooping MLD v1 Snooping MLD v2 awareness Support 128 static multicast addresses Support host-based fast leave LLDP 	 LLDP-MED Spanning Tree Protocol 802.1D STP 802.1w RSTP 802.1s MSTP Flow Control 802.3x Flow Control 802.3x Flow Control HOL Blocking Prevention Port Mirroring One-to-One Many-to-One Supports Mirroring for Tx/Rx/Both 802.3ad Link Aggregation: Maximum of 8 groups/8 ports per group Jumbo Frame Up to 10KB Loopback Detection ERPS (Ethernet Ring Protection Switching) 	
VLAN	 802.1Q VLAN Port-based VLAN Configurable VID 1~4094 	 Voice VLAN Auto Surveillance VLAN Asymmetric VLAN 4K VLAN Groups 	
Quality of Service (QoS)	 802.1 p Priority Queue 8 queues per port Queue Handling Strict Weighted Round Robin (WRR) Bandwidth Control Port-based (Ingress/Egress, min. granularity 64 Kbps) 		
L3 Features	 IP Interface Supports 8 IPv4/v6 interfaces ARP 768 Static ARP Default Route 	 IPv6 Neighbor Discovery (ND) Static Route Max. 64 IPv4 entries Max. 64 IPv6 entries 	
Access Control List (ACL)	 Max. 50 access list Max. 256 ACL rules ACL based on 802.1p priority VLAN MAC address Ether type 	 IP address DSCP Protocol type TCP/UDP port number IPv6 flow label 	
Security	 Broadcast/Multicast/Unicast Storm Control D-Link Safeguard Engine DHCP Server Screening Port Security Supports up to 6656 MAC addresses per port Duplicate Address Detection 	 Traffic Segmentation SSL Support v1/v2/v3 Support IPv4/IPv6 DoS Attack Prevention SSH 	
Operations, Administration, and Management (OAM)	Cable Diagnostics		
Authentication, Authorization, and Accounting (AAA)	 802.1X Authentication 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 	 Support IPv4/IPv6 RADIUS Server Guest VLAN Authentication for management access 	

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Management	D-Link Nuclias Connect	System Log BootP/DHCP Client	
	Web-based GUI Full CLI	SNTP	
	Telnet Server	• ICMP v6	
	TFTP Client	IPv4/v6 Dual Stack	
	Configurable MDI/MDIX	RMON v1	
	• SNMP	Trusted Host	
	 Supports v1/v2c/v3 SNMP Trap 	Dual Images Dual Configurations	
	• LLDP	Debug command	
	• LLDP-MED		
Green V3.0 Technology	Power Saving by: LED Shutoff	System HibernationPort Shutoff	
MIB/RFC Standards	RFC2021 RMONv2 MIB RFC2460 IPv6	RFC2618 RADIUS Authentication Client MIB RFC2668 802.3 MAU MIB	
	 RFC2461, RFC4861 Neighbor Discovery for IPv6 	• RFC2674, RFC4363 802.1p MIB	
	RFC2462, RFC4862 IPv6 Stateless Address Auto-configuration	• RFC271, RFC1757, RFC2819 RMON MIB	
	(SLAAC) • RFC2463, RFC4443 ICMPv6	 RFC2893, RFC4213 IPv4/IPv6 dual stack function RFC2925 Ping & TRACEROUTE MIB 	
	RFC2463, RFC4443 ICMPV6 RFC2464 IPv6 over Ethernet and definition	RFC3232 Filig & TRACEROUTE Mild RFC3513, RFC4291 IPv6 Addressing Architecture	
	RFC2465 IPv6 MIB	RFC4022 MIB for TCP	
	RFC2466 ICMPv6 MIB	RFC4113 MIB for UDP	
	RFC2474, RFC3168, RFC3260 Definition of the DS Field in the	RFC4293 IPv6 SNMP Mgmt Interface MIB	
	IPv4 and IPv6 Headers • RFC2571 SNMP Framework	RFC4884 Extended ICMP to Support Multi-Part Messages RFC768 UDP	
	RFC2572 SNMP Message Processing and Dispatching	• RFC708 0DF • RFC792 ICMPv4	
	RFC2573 SNMP Applications	• RFC793 TCP	
	RFC2574 User-based Security Model for SNMPv3	• RFC826 ARP	
Order Information			
Part Number	Description		
	10G Smart Switch with 8-port 10GBASE-T and 2-port SFP+		
DXS-1210-10TS	10G Smart Switch with 8-port 10GBASE-T and 2-port SFP+		
DXS-1210-10TS DXS-1210-12TC	10G Smart Switch with 8-port 10GBASE-T and 2-port SFP+ 10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and	d 2-port 10GBASE-T/SFP+ combo port	
DXS-1210-12TC	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S DEM-CB700S	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S DEM-CB700S	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S DEM-CB700S Optional Gigabit Ethern	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable et SFP Transceivers	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S DEM-CB700S Optional Gigabit Ethern DGS-712	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable et SFP Transceivers 1000BASE-T Copper SFP Transceiver	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S DEM-CB700S Optional Gigabit Ethern DGS-712 DEM-310GT	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Eth DEM-CB100S DEM-CB300S DEM-CB700S Optional Gigabit Ethern DGS-712 DEM-310GT DEM-311GT	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable	FP+ combo port	
DXS-1210-12TC DXS-1210-12SC DXS-1210-16TC Optional 10 Gigabit Ether DEM-CB100S DEM-CB300S DEM-CB700S Optional Gigabit Ethern DGS-712 DEM-310GT DEM-311GT DEM-312GT2	10G Smart Switch with 8-port 10GBASE-T and 2-port 10G SFP+ and 10G Smart Switch with 10-port 10G SFP+ and 2-port 10GBASE-T/SF 10G Smart Managed Switch with 12-port 10GBASE-T and 2-port 10 ernet SFP+ Direct Attach Cables 10GbE SFP+ to SFP+ 1 m Direct Attach Cable 10GbE SFP+ to SFP+ 3 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP+ to SFP+ 7 m Direct Attach Cable 10GbE SFP- to SFP+ 7 m Direct Attach Cable 10GbE SFP. 1000BASE-T Copper SFP Transceiver 1000BASE-LX Single-Mode, 10 km 1000BASE-SX Multi-mode, 550 m 1000BASE-SX Multi-mode, 2 km	FP+ combo port	

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DEM-330R	1000BASE-BX-U Single-Mode, 10 km (TX-1310/RX-1550 nm)	
DEM-331T	1000BASE-BX-D Single-Mode, 40 km (TX-1550/RX-1310 nm)	
DEM-331R	1000BASE-BX-U Single-Mode, 40 km (TX-1310/RX-1550 nm)	
Optional 10 Gigabit Ethernet SFP+ Transceivers		
DEM-431XT	10GBASE-SR Multi-Mode, OM1: 33 m/OM2: 82 m/OM3: 300 m (w/o DDM)	
DEM-432XT	10GBASE-LR Single-Mode, 10 km (w/o DDM)	
DEM-433XT	10GBASE-ER Single-Mode, 40 km (w/o DDM)	
DEM-434XT	10GBASE-ZR Single-Mode, 80 km (w/o DDM)	
DEM-436XT-BXD	10GBASE-LR Single-Mode, 20 km (TX-1330/RX-1270 nm) (w/o DDM)	
DEM-436XT-BXU	10GBASE-LR Single Mode, 20 km (TX-1270/RX-1310 nm) (w/o DDM)	
Optional Management Software		
DV-800-LIC	D-View 8 Standard License	
DV-800E-LIC	D-View 8 Enterprise License	
DV-800SE-LIC	D-View 8 Upgrade License from Standard to Enterprise Edition	

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