D-Link®

Product Highlights

10 Gigabit Ethernet Connection

The DXS-1210-28T/28S are both high-port 10G switches, perfect choices for an SMB core switch or an Enterprise aggregation switch

Server Farm

The DXS-1210-28T features 4 x 10 G/25 Gbps uplink ports, ideal for a server farm top-of-rack (ToR)

Layer 3 Lite Functions

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

DXS-1210-28T/28S
10 Gigabit Ethernet Smart Managed Switches

Features

High Availability and Flexibility
- 24 x 10GBASE-T or SFP+ ports
- 4 x 25G SFP28 or 10GBASE-T uplink ports

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)
- Full CLI through console and Telnet

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

The DXS-1210-28T/28S 10 Gigabit Ethernet Smart Managed Switches are a cost-effective 10 Gigabit switches capable of servicing a range of network needs in any business environment. The DXS-1210-28T is equipped with 4 x 10/25G SFP28 ports, enabling this series to serve as either an aggregation/access switch in large enterprise environments or deployed at the core of an SMB network. With high performance and low latency, these 10G smart-managed switches fulfil the needs of virtualisation, cloud services, and server-to-server applications.

The DXS-1210-28T/28S comes with a complete line-up of L2 features, including port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). At the same time, inter-VLAN static routing helps by reducing the pressure of routers and backbone networks, improving overall network efficiency. The free D-Link Network Assistant utility allows multiple D-Link devices within the same L2 network to be discovered and managed. These switches also provide management through the multi-lingual web UI, a full command-line interface (CLI) through Telnet, a console port, as well as D-View 7 Network Management System.

D-Link Assist
Next Business Day Service

Your network is the backbone of your business. Keeping it running is essential, even if the unexpected happens. D-Link Assist is a rapid-response technical support service that replaces faulty equipment quickly and efficiently. Maximising your uptime and giving you the confidence that instant support is only a phone call away.

All D-Link products with 5-year or Limited Lifetime warranty come with complimentary Next Business Day Service. D-Link will send out a replacement product to you on the next business day after acceptance of a product failure. On receipt of the replacement product, you simply arrange the return of the defective product to us. Any products with a 2-year/3-year warranty can also benefit from the Next Business Day advance replacement service when the optional 3-year warranty extension has been purchased.

Find out more at **eu.dlink.com/services**

Technical Specifications

General	DXS-1210-28T	DXS-1210-28S
Ports	• 24 x 10GBASE-T ports • 4 x 10/25G SFP28 ports	• 24 x 10G SFP+ ports • 4 x 10GBASE-T 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 802.3az Energy Efficiency Ethernet (EEE) • IEEE 802.3an 10GBASE-T 10 Gigabit Ethernet	• 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 (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	• 680 Gbps	• 560 Gbps
Maximum Packet Forwarding Rate	• 505.92 Mpps	• 416.64 Mpps
Transmission Method	• Store-and-forward	
MAC Address Table	• Up to 32,000 entries per device	

Physical/Environmental		
Acoustic	• Fan at high speed: 51.9 dB(A) • Fan at low speed: 40.0 dB(A)	• Fan at high speed: 52.3 dB(A) • Fan at low speed: 40.2 dB(A)
Fans	• 2 x Smart Fan	
AC Input	• 100 to 240 VAC	
Max Power Consumption	• 87.3 W	• 85.7 W
Standby Power Consumption	• 33 W	• 27.7 W
Operating Temperature	• -5 to 50 ℃ (23 to 122 ℉)	
Storage Temperature	• -20 to 70 ℃ (-4 to 158 ℉)	
Operating Humidity	• 0% to 95% non-condensing	
Storage Humidity	• 0% to 95% non-condensing	
Dimensions (L x W x H)	• 441 x 209.5 x 44 mm (17.36 x 8.28 x 1.73 in)	
Weight	• 3.07 kg	• 3.27 kg
Diagnostic LEDs	• Link/Activity/Speed (Per 10GBASE-T port) • Link/Activity/Speed (Per 10G SFP+ port) • Power	• Console • Fan error
Certifications	• CE Class A • FCC Class A • VCCI Class A	• IC • BSMI
Safety	• UL • CB	• BSMI

Software		

L2 Features	• MAC Address Table
	  • Up to 32K entries
	• Static MAC Addresses
	  • 256
	• IGMP Snooping
	  • IGMP v1/v2/v3 Snooping
	  • Supports 512 groups (shared between dynamic and static, with a max of 128 static)
	  • Per VLAN IGMP Snooping
	  • Support port-based fast leave
	  • Report Suppression
	• MLD Snooping
	  • MLD v1/v2 Snooping
	  • Supports 256 groups (shared between dynamic and static, with a max of 128 static)
	  • Support port-based fast leave
	• LLDP
		• LLDP-MED
		• Spanning Tree Protocol
		  • 802.1D STP
		  • 802.1w RSTP
		  • 802.1s MSTP
		• 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 12,288 Bytes
		• Loopback Detection

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)	• CoS based on
	  • Switch port
	  • 802.1p Priority Queues
	  • Outer 802.1p priority
	  • DSCP
	  • ToS
	  • IPv6 Traffic Class
	  • TCP/UDP port
	  • MAC Address
	  • Ether Type
	  • IP Address
	  • Protocol Type
	  • IPv6 Flow Label/ Traffic Class
		• 802.1p Priority Queue
		• 8 queues per port
		• Queue Handling
		  • Strict Priority Que (SPQ)
		  • Weighted Round Robin (WRR)
		• Bandwidth Control
		  • Port-based (Ingress/Egress, min. granularity 64 Kbps)
		  • Queue-based (Egress, min. granularity 64 Kbps)

L3 Features	• IP Interface
	  • Supports 4 IPv4/v6 interfaces
	• ARP
	  • 384 Static ARP
	• Default Route
		• IPv6 Neighbor Discovery (ND)
		• Static Route
		  • Max. 128 IPv4 entries
		  • Max. 64 IPv6 entries

Access Control List (ACL)	• ACL based on
	  • IPv4 address: Source/destination IP Address mask, IP preference/ ToS mask, DSCP mask, Protocol
	  • MAC address: 802.1p priority mask, VID mask, Source/destination MAC address mask, Ether type mask
	  • IPv6 address: Source/destination IP Address mask, DSCP mask, Protocol type mask, TCP/UDP port number mask, IPv6 traffic class mask, IPv6 flow label mask
		• Max. 1536 ingress ACL entries
		• Max. 1024 egress ACL entries
		• Max. 1024 Access List Numbers

Security	• Broadcast/Multicast/Unicast Storm Control
	• D-Link Safeguard Engine
	• DHCP Server Screening
	• IP-MAC-Port Binding
	  • DHCP Snooping
	  • DHCPv6 Guard
	  • IPv4/v6 Source Guard
	  • Dynamic ARP Inspection
	  • IPv6 ND Inspection
	  • IPv6 Route Advertisement (RA) Guard
	  • Duplicate Address Detection (DAD)
	• Broadcast/Multicast/Unicast Storm Control
	  • Min. granularity per port: 16 Kbps
		• Traffic Segmentation
		• SSH
		  • Support v2
		  • Support IPv4/ IPv6
		• SSL
		  • Support TLS 1.0/1.1/1.2
		  • Support IPv4/IPv6
		• ARP Spoofing Prevention[1]
		  • Max. 128 entries
		• DoS Attack Prevention
		• Port Security
		  • Supports up to 64 MAC addresses per port
		• Duplicate Address Detection

Operations, Administration, and Management (OAM)	• Cable Diagnostics	

Authentication, Authorization, and Accounting (AAA)	• 802.1X Authentication
	  • Supports Dynamic VLAN Assignment
	  • Supports local/RADIUS database
	  • Supports Port-based access control
	  • Supports Host-based access control
	  • Supports EAP, TLS, TTLS, PEAP
		• Support IPv4/IPv6 RADIUS Server
		• Guest VLAN
		• Trusted Host
		  • Support IPv4/v6 host
		  • Trusted host for Telnet, HTTP, HTTPS, SSH, Ping

Management	• Web-based GUI • D-Link Network Assistant Utility • Full CLI • Telnet Server • TFTP Client • Configurable MDI/MDIX • SNMP • Supports v1/v2c/v3 • SNMP Trap • Smart Wizard • LLDP • LLDP-MED • ICMP v4	• DHCP Relay • DHCP Auto-image • System Log • BootP/DHCP Client • SNTP • ICMP v6 • IPv4/v6 Dual Stack • DHCP Auto Configuration • RMON v1/v2 • Dual Images • Dual Configurations • DNS Client

Green V3.0 Technology	• Power Saving by:
	  • LED Shutoff
		• System Hibernation
		  • Port Shutoff

MIB/RFC Standards	• RFC 783/1350 TFTP Client • RFC 951/1542/2131 BootP/DHCP Client • RFC 1213 MIB II • RFC 1215 MIB Traps Convention • RFC 3612 Power-Ethernet MIB • RFC 3418 SNMPv2-MIB • RFC 2863 Interface Group MIB • RFC 3635 Ethernet-Like MIB • RFC 4293 IP-MIB • RFC 2819 RMON v1 • RFC 4502 RMON2-MIB • RFC 4188 Bridge MIB • RFC 4363(6) P-Bridge-MIB • RFC 4363(7) Q-Bridge-MIB • RFC 4668 RADIUS Authentication Client MIB	• RFC 4292 IP Forward MIB • RFC 4836 MAU MIB • RFC 4133 Entity MIB • RFC 4560(80) PING-MIB • RFC 4560(81) Traceroute-MIB • RFC 3411 SNMP-Framework-MIB • RFC 3414 SNMP-User-Based-MIB • RFC 3412 SNMP-MPD-MIB • RFC 3413(12) SNMP-Target-MIB • RFC 3413(13) SNMP-Notification-MIB • RFC 3415 SNMP-View-Based-ACM-MIB • RFC 3584 SNMP-Community-MIB • D-Link Private MIBs • LLDP MIB • Zone Defense MIB

Optional 10 Gigabit Ethernet SFP+ Direct Attach Cables	
DEM-CB100S	10GbE SFP+ to SFP+ 1 m Direct Attach Cable
DEM-CB300S	10GbE SFP+ to SFP+ 3 m Direct Attach Cable
Optional Gigabit Ethernet SFP Transceivers	
DGS-712	1000BASE-T Copper SFP Transceiver
DEM-310GT	1000BASE-LX Single-Mode, 10 km
DEM-311GT	1000BASE-SX Multi-mode, 550 m
DEM-312GT2	1000BASE-SX Multi-mode, 2 km
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-410T	SFP+ 10GBASE-T Copper Transceiver
Optional Management Software	
DV-700	D-View 7 Network Management Software (downloadable from http://dview.dlink.com)
DV-700-N25-LIC	D-View 7 - 25 Node License
DV-700-N250-LIC	D-View 7 - 250 Node License
DV-700-P10-LIC	D-View 7 - 10 Probe License

[1] DXS-1210-28T only

For more information: www.dlink.com

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