

## 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 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)
- Full CLI through console and Telnet

### Advanced Features

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

The D-Link DXS-1210 Series 10 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 fulfils the needs for virtualisation, cloud services, 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 utilising different fan speeds for different temperatures. At lower temperatures, the fans will run slower, reducing the switch's power consumption and noise. Link status drastically reduces power consumption by automatically putting ports without a link into a sleep mode. 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 line-up 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 a prioritised and segmented VLAN, this feature guarantees 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.

### 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.

### 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 switch uses packet control ACLs to block invalid packets that contain fake ARP messages. For added security, the DHCP server screening feature filters DHCP replies on unauthorised 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 a full 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.



### Complimentary Next Business Day Service, as Standard

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.

### Get expert help with your installation and configuration

- Available on selected D-Link products, D-Link Assist can help you get your new D-Link hardware up and running with the minimum of fuss
- Installation services include unpacking, quality inspection, interconnection with host server as well as installation and integration of software

Visit [eu.dlink.com/services](https://eu.dlink.com/services) for more information

# 10 Gigabit Ethernet Smart Managed Switches

## Technical Specifications

### General

Model	• DXS-1210-10TS	• DXS-1210-12TC	• DXS-1210-12SC	• DXS-1210-16TC
Hardware Version	• A2	• A2	• A2	• A2
Interfaces	• 8 x 10GBASE-T ports • 2 x SFP+ ports	• 8 x 10GBASE-T ports • 2 x SFP+ ports • 2 x 10GBASE-T/SFP+ combo ports	• 10 x 10G SFP+ ports • 2 x 10GBASE-T/SFP+ combo ports	• 12 x 10GBASE-T ports • 2 x SFP+ ports • 2 x 10GBASE-T/SFP+ combo ports
Console	• RJ-45 console port			
Port Standard & Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet <ul style="list-style-type: none"> <li>• IEEE 802.3az compliance</li> </ul> </li> <li>• IEEE 802.3an 10GBASE-T 10 Gigabit Ethernet <ul style="list-style-type: none"> <li>• IEEE 802.3ae 10GbE over fiber</li> <li>• IEEE 802.3z 1000BASE-X</li> </ul> </li> <li>• Auto MDI/MDIX support for 1000/10GBASE-T</li> </ul>			
Network Cables for 10GBASE-T	<ul style="list-style-type: none"> <li>• Cat. 6 (30 m max)</li> <li>• Cat. 6A or Cat. 7 (100 m max)</li> </ul>			
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 16,000 entries per device			

### Physical/Environmental

AC Input	• 100 to 240 VAC			
Maximum Power Consumption	• 68.67 W	• 90.81 W	• 43.81 W	• 90.81 W
Standby Power Consumption	• 31.59 W	• 42.65 W	• 25.22 W	• 43.65 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)	• 440 x 210 x 44 mm (17.36 x 8.26 x 1.73 in)			
Weight	• 3.10 kg (6.83 lbs)	• 3.15 kg (6.94 lbs)	• 2.73 kg (6.02 lbs)	• 3.15 kg (6.94 lbs)
Diagnostic LEDs	<ul style="list-style-type: none"> <li>• Link/Activity/Speed (Per 10GBASE-T port)</li> <li>• Link/Activity/Speed (Per 10G SFP+ port)</li> <li>• Power/Console/Fan/ (Per device)</li> </ul>			
Certifications	• CE, FCC, C-Ticket, VCCI, BSMI, CCC			
Safety	• cUL, CB, CE, CCC, BSMI			

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

# 10 Gigabit Ethernet Smart Managed Switches

Operations, Administration, and Management (OAM)	<ul style="list-style-type: none"> <li>• Cable Diagnostics</li> </ul>	
Authentication, Authorization, and Accounting (AAA)	<ul style="list-style-type: none"> <li>• Web-based Access Control (WAC)<sup>1</sup> <ul style="list-style-type: none"> <li>• Support local/RADIUS database</li> <li>• Support Port-based access control</li> <li>• Support Host-based access control</li> <li>• Support Dynamic VLAN Assignment</li> </ul> </li> <li>• Identity-driven Policy (VLAN/ACL/QoS) Assignment</li> <li>• 802.1X Authentication           <ul style="list-style-type: none"> <li>• Support Dynamic VLAN Assignment</li> <li>• Identity-driven Policy (VLAN/ACL/QoS) Assignment</li> </ul> </li> <li>• Supports local/RADIUS database</li> <li>• Supports Port-based access control</li> <li>• Supports Host-based access control</li> <li>• Supports EAP, OTP, TLS, TTLS, PEAP</li> </ul>	<ul style="list-style-type: none"> <li>• Support IPv4/IPv6 RADIUS Server</li> <li>• Support IPv4/IPv6 TACACS+<sup>1</sup></li> <li>• Guest VLAN</li> <li>• Compound Authentication<sup>1</sup></li> <li>• Authentication for management access</li> <li>• Authentication Database Failover<sup>1</sup></li> <li>• MAC-based Access Control (MAC)<sup>1</sup> <ul style="list-style-type: none"> <li>• Support local/RADIUS database</li> <li>• Support Port-based access control</li> <li>• Support Host-based access control</li> <li>• Support Dynamic VLAN Assignment</li> </ul> </li> <li>• Identity-driven Policy (VLAN/ACL/QoS) Assignment</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• D-Link Network Assistant Utility</li> <li>• Full CLI</li> <li>• Telnet Server</li> <li>• TFTP Client</li> <li>• Configurable MDI/MDIX</li> <li>• SNMP           <ul style="list-style-type: none"> <li>• Supports v1/v2c/v3</li> </ul> </li> <li>• SNMP Trap</li> <li>• Smart Wizard</li> <li>• LLDP</li> <li>• LLDP-MED</li> <li>• DHCP Relay<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>• System Log</li> <li>• BootP/DHCP Client</li> <li>• SNTP</li> <li>• ICMP v6</li> <li>• IPv4/v6 Dual Stack</li> <li>• DHCP Auto Configuration<sup>1</sup></li> <li>• RMON v1/v2<sup>1</sup></li> <li>• Trusted Host</li> <li>• Dual Images</li> <li>• Dual Configurations</li> <li>• DNS Client<sup>1</sup></li> <li>• Debug command</li> </ul>
Green V3.0 Technology	<ul style="list-style-type: none"> <li>• Power Saving by:           <ul style="list-style-type: none"> <li>• LED Shutoff</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• System Hibernation</li> <li>• Port Shutoff</li> </ul>
MIB/RFC Standards	<ul style="list-style-type: none"> <li>• RFC 783 TFTP</li> <li>• RFC 951 BootP/DHCP Client</li> <li>• RFC 1157 SNMP v1, v2, v3</li> <li>• RFC 1213 MIB II</li> <li>• RFC 1215 MIB Traps Convention</li> <li>• RFC 1350 TFTP</li> <li>• RFC 1493 Bridge MIB</li> <li>• RFC 1769 SNTP</li> <li>• RFC 1542 BootP/DHCP Client</li> <li>• RFC 1901 SNMP v1, v2, v3</li> <li>• RFC 1907 SNMP v2 MIB</li> <li>• RFC 1908 SNMP v1, v2, v3</li> <li>• RFC 2131 BootP/DHCP Client</li> <li>• RFC 2138 RADIUS Authentication<sup>1</sup></li> <li>• RFC 2139 RADIUS Authentication</li> <li>• RFC 2233 Interface Group MIB</li> </ul>	<ul style="list-style-type: none"> <li>• RFC-2246 SSL</li> <li>• RFC 2475</li> <li>• RFC 2570 SNMP v1, v2, v3</li> <li>• RFC 2575 SNMP v1, v2, v3</li> <li>• RFC 2598 CoS</li> <li>• RFC 2618 RADIUS Authentication<sup>1</sup></li> <li>• RFC 2819 RMON v1</li> <li>• RFC 2865 RADIUS Authentication</li> <li>• RFC 3164 System Log</li> <li>• RFC 3195 System Log</li> <li>• RFC 3411-17 SNMP</li> <li>• D-Link Private MIB</li> <li>• LLDP MIB</li> <li>• Zone Defense MIB</li> <li>• 2233 Interface Group MIB</li> </ul>

# DXS-1210 Series

## 10 Gigabit Ethernet Smart Managed Switches

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-410T	10GbE SFP+ 10GBASE-T Copper Transceiver
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)
Optional 10 Gigabit Ethernet Adapters	
DXE-820T	Dual port 10GBASE-T RJ45 PCI-Express Adapter
Optional Management Software	
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

<sup>1</sup>This feature will be supported in a future firmware release



For more information: [www.dlink.com](http://www.dlink.com)

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Updated April 2019

## 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](http://eu.dlink.com/services)

# 10 Gigabit Ethernet Smart Managed Switches

## Technical Specifications

General	DXS-1210-28T	DXS-1210-28S
Ports	<ul style="list-style-type: none"> <li>• 24 x 10GBASE-T ports</li> <li>• 4 x 10/25G SFP28 ports</li> </ul>	<ul style="list-style-type: none"> <li>• 24 x 10G SFP+ ports</li> <li>• 4 x 10GBASE-T ports</li> </ul>
Console Port	<ul style="list-style-type: none"> <li>• RJ-45 console port</li> </ul>	
Port Standard & Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet</li> <li>• IEEE 802.3az Energy Efficiency Ethernet (EEE)</li> <li>• IEEE 802.3an 10GBASE-T 10 Gigabit Ethernet</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3ae 10GbE over fiber</li> <li>• IEEE 802.3z 1000BASE-X</li> <li>• Auto MDI/MDIX support for 1000/10GBASE-T</li> </ul>
Network Cables for 10GBASE-T	<ul style="list-style-type: none"> <li>• Cat. 6 (30 m max)</li> <li>• Cat. 6A or Cat. 7 (100 m max)</li> </ul>	
Media Interface Exchange	<ul style="list-style-type: none"> <li>• Auto MDI/MDIX adjustment for all twisted-pair ports</li> </ul>	
Performance		
Switching Capacity	<ul style="list-style-type: none"> <li>• 680 Gbps</li> </ul>	<ul style="list-style-type: none"> <li>• 560 Gbps</li> </ul>
Maximum Packet Forwarding Rate	<ul style="list-style-type: none"> <li>• 505.92 Mpps</li> </ul>	<ul style="list-style-type: none"> <li>• 416.64 Mpps</li> </ul>
Transmission Method	<ul style="list-style-type: none"> <li>• Store-and-forward</li> </ul>	
MAC Address Table	<ul style="list-style-type: none"> <li>• Up to 32,000 entries per device</li> </ul>	
Physical/Environmental		
Acoustic	<ul style="list-style-type: none"> <li>• Fan at high speed: 51.9 dB(A)</li> <li>• Fan at low speed: 40.0 dB(A)</li> </ul>	<ul style="list-style-type: none"> <li>• Fan at high speed: 52.3 dB(A)</li> <li>• Fan at low speed: 40.2 dB(A)</li> </ul>
Fans	<ul style="list-style-type: none"> <li>• 2 x Smart Fan</li> </ul>	
AC Input	<ul style="list-style-type: none"> <li>• 100 to 240 VAC</li> </ul>	
Max Power Consumption	<ul style="list-style-type: none"> <li>• 87.3 W</li> </ul>	<ul style="list-style-type: none"> <li>• 85.7 W</li> </ul>
Standby Power Consumption	<ul style="list-style-type: none"> <li>• 33 W</li> </ul>	<ul style="list-style-type: none"> <li>• 27.7 W</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• -5 to 50 °C (23 to 122 °F)</li> </ul>	
Storage Temperature	<ul style="list-style-type: none"> <li>• -20 to 70 °C (-4 to 158 °F)</li> </ul>	
Operating Humidity	<ul style="list-style-type: none"> <li>• 0% to 95% non-condensing</li> </ul>	
Storage Humidity	<ul style="list-style-type: none"> <li>• 0% to 95% non-condensing</li> </ul>	
Dimensions (L x W x H)	<ul style="list-style-type: none"> <li>• 441 x 209.5 x 44 mm (17.36 x 8.28 x 1.73 in)</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>• 3.07 kg</li> </ul>	<ul style="list-style-type: none"> <li>• 3.27 kg</li> </ul>
Diagnostic LEDs	<ul style="list-style-type: none"> <li>• Link/Activity/Speed (Per 10GBASE-T port)</li> <li>• Link/Activity/Speed (Per 10G SFP+ port)</li> <li>• Power</li> </ul>	<ul style="list-style-type: none"> <li>• Console</li> <li>• Fan error</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• CE Class A</li> <li>• FCC Class A</li> <li>• VCCI Class A</li> </ul>	<ul style="list-style-type: none"> <li>• IC</li> <li>• BSMI</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• UL</li> <li>• CB</li> </ul>	<ul style="list-style-type: none"> <li>• BSMI</li> </ul>



# 10 Gigabit Ethernet Smart Managed Switches

Software	
L2 Features	<ul style="list-style-type: none"> <li>• MAC Address Table               <ul style="list-style-type: none"> <li>• Up to 32K entries</li> </ul> </li> <li>• Static MAC Addresses               <ul style="list-style-type: none"> <li>• 256</li> </ul> </li> <li>• IGMP Snooping               <ul style="list-style-type: none"> <li>• IGMP v1/v2/v3 Snooping</li> <li>• Supports 512 groups (shared between dynamic and static, with a max of 128 static)</li> <li>• Per VLAN IGMP Snooping</li> <li>• Support port-based fast leave</li> <li>• Report Suppression</li> </ul> </li> <li>• MLD Snooping               <ul style="list-style-type: none"> <li>• MLD v1/v2 Snooping</li> <li>• Supports 256 groups (shared between dynamic and static, with a max of 128 static)</li> <li>• Support port-based fast leave</li> </ul> </li> <li>• LLDP</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• 802.1Q VLAN</li> <li>• Port-based VLAN</li> <li>• Configurable VID               <ul style="list-style-type: none"> <li>• 1~4094</li> </ul> </li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>• CoS based on               <ul style="list-style-type: none"> <li>• Switch port</li> <li>• 802.1p Priority Queues</li> <li>• Outer 802.1p priority</li> <li>• DSCP</li> <li>• ToS</li> <li>• IPv6 Traffic Class</li> <li>• TCP/UDP port</li> <li>• MAC Address</li> <li>• Ether Type</li> <li>• IP Address</li> <li>• Protocol Type</li> <li>• IPv6 Flow Label/ Traffic Class</li> </ul> </li> </ul>
L3 Features	<ul style="list-style-type: none"> <li>• IP Interface               <ul style="list-style-type: none"> <li>• Supports 4 IPv4/v6 interfaces</li> </ul> </li> <li>• ARP               <ul style="list-style-type: none"> <li>• 384 Static ARP</li> </ul> </li> <li>• Default Route</li> </ul>
Access Control List (ACL)	<ul style="list-style-type: none"> <li>• ACL based on               <ul style="list-style-type: none"> <li>• IPv4 address: Source/destination IP Address mask, IP preference/ ToS mask, DSCP mask, Protocol</li> <li>• MAC address: 802.1p priority mask, VID mask, Source/destination MAC address mask, Ether type mask</li> <li>• 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</li> </ul> </li> </ul>

# 10 Gigabit Ethernet Smart Managed Switches

<b>Security</b>	<ul style="list-style-type: none"> <li>• Broadcast/Multicast/Unicast Storm Control</li> <li>• D-Link Safeguard Engine</li> <li>• DHCP Server Screening</li> <li>• IP-MAC-Port Binding               <ul style="list-style-type: none"> <li>• DHCP Snooping</li> <li>• DHCPv6 Guard</li> <li>• IPv4/v6 Source Guard</li> </ul> </li> <li>• Dynamic ARP Inspection</li> <li>• IPv6 ND Inspection</li> <li>• IPv6 Route Advertisement (RA) Guard</li> <li>• Duplicate Address Detection (DAD)</li> <li>• Broadcast/Multicast/Unicast Storm Control               <ul style="list-style-type: none"> <li>• Min. granularity per port: 16 Kbps</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Traffic Segmentation</li> <li>• SSH               <ul style="list-style-type: none"> <li>• Support v2</li> <li>• Support IPv4/ IPv6</li> </ul> </li> <li>• SSL               <ul style="list-style-type: none"> <li>• Support TLS 1.0/1.1/1.2</li> <li>• Support IPv4/IPv6</li> </ul> </li> <li>• ARP Spoofing Prevention<sup>1</sup> <ul style="list-style-type: none"> <li>• Max. 128 entries</li> </ul> </li> <li>• DoS Attack Prevention</li> <li>• Port Security               <ul style="list-style-type: none"> <li>• Supports up to 64 MAC addresses per port</li> </ul> </li> <li>• Duplicate Address Detection</li> </ul>
<b>Operations, Administration, and Management (OAM)</b>	<ul style="list-style-type: none"> <li>• Cable Diagnostics</li> </ul>	
<b>Authentication, Authorization, and Accounting (AAA)</b>	<ul style="list-style-type: none"> <li>• 802.1X Authentication               <ul style="list-style-type: none"> <li>• Supports Dynamic VLAN Assignment</li> <li>• Supports local/RADIUS database</li> <li>• Supports Port-based access control</li> <li>• Supports Host-based access control</li> <li>• Supports EAP, TLS, TTLS, PEAP</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Support IPv4/IPv6 RADIUS Server</li> <li>• Guest VLAN</li> <li>• Trusted Host               <ul style="list-style-type: none"> <li>• Support IPv4/v6 host</li> <li>• Trusted host for Telnet, HTTP, HTTPS, SSH, Ping</li> </ul> </li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• D-Link Network Assistant Utility</li> <li>• Full CLI</li> <li>• Telnet Server</li> <li>• TFTP Client</li> <li>• Configurable MDI/MDIX</li> <li>• SNMP               <ul style="list-style-type: none"> <li>• Supports v1/v2c/v3</li> </ul> </li> <li>• SNMP Trap</li> <li>• Smart Wizard</li> <li>• LLDP</li> <li>• LLDP-MED</li> <li>• ICMP v4</li> </ul>	<ul style="list-style-type: none"> <li>• DHCP Relay</li> <li>• DHCP Auto-image</li> <li>• System Log</li> <li>• BootP/DHCP Client</li> <li>• SNTP</li> <li>• ICMP v6</li> <li>• IPv4/v6 Dual Stack</li> <li>• DHCP Auto Configuration</li> <li>• RMON v1/v2</li> <li>• Dual Images</li> <li>• Dual Configurations</li> <li>• DNS Client</li> </ul>
<b>Green V3.0 Technology</b>	<ul style="list-style-type: none"> <li>• Power Saving by:               <ul style="list-style-type: none"> <li>• LED Shutoff</li> </ul> </li> <li>• System Hibernation</li> <li>• Port Shutoff</li> </ul>	
<b>MIB/RFC Standards</b>	<ul style="list-style-type: none"> <li>• RFC 783/1350 TFTP Client</li> <li>• RFC 951/1542/2131 BootP/DHCP Client</li> <li>• RFC 1213 MIB II</li> <li>• RFC 1215 MIB Traps Convention</li> <li>• RFC 3612 Power-Ethernet MIB</li> <li>• RFC 3418 SNMPv2-MIB</li> <li>• RFC 2863 Interface Group MIB</li> <li>• RFC 3635 Ethernet-Like MIB</li> <li>• RFC 4293 IP-MIB</li> <li>• RFC 2819 RMON v1</li> <li>• RFC 4502 RMON2-MIB</li> <li>• RFC 4188 Bridge MIB</li> <li>• RFC 4363(6) P-Bridge-MIB</li> <li>• RFC 4363(7) Q-Bridge-MIB</li> <li>• RFC 4668 RADIUS Authentication Client MIB</li> <li>• RFC 4292 IP Forward MIB</li> <li>• RFC 4836 MAU MIB</li> <li>• RFC 4133 Entity MIB</li> <li>• RFC 4560(80) PING-MIB</li> <li>• RFC 4560(81) Traceroute-MIB</li> <li>• RFC 3411 SNMP-Framework-MIB</li> <li>• RFC 3414 SNMP-User-Based-MIB</li> <li>• RFC 3412 SNMP-MPD-MIB</li> <li>• RFC 3413(12) SNMP-Target-MIB</li> <li>• RFC 3413(13) SNMP-Notification-MIB</li> <li>• RFC 3415 SNMP-View-Based-ACM-MIB</li> <li>• RFC 3584 SNMP-Community-MIB</li> <li>• D-Link Private MIBs</li> <li>• LLDP MIB</li> <li>• Zone Defense MIB</li> </ul>	

## 10 Gigabit Ethernet Smart Managed Switches

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 <a href="http://dview.dlink.com">http://dview.dlink.com</a> )
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

<sup>1</sup> DXS-1210-28T only



For more information: [www.dlink.com](http://www.dlink.com)

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Updated August 2020

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