

Product Highlights

10 Gigabit Ethernet Connection

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

Improved Power Efficiency

Innovative D-Link Green features help conserve energy without sacrificing performance so you can reduce operating costs and protect the environment

Smart and Flexible Management

Comprehensive switch management functions can be performed through a web management interface or through the client-based utility



DXS-1100 Series 10 Gigabit Ethernet Smart Managed Switches

Features

Green Technology

- Link Status Detection
- LED, Port Shut-off
- Port Standby
- System Hibernation

Security

- Port Security
- D-Link Safeguard Engine
- ARP Spoofing Prevention
- SSL

Traffic Monitoring & Bandwidth Control

- Port Mirroring/Bandwidth Control
- Broadcast/Multicast/Unicast Storm Control

Advanced Features

- Traffic Segmentation
- Port-based VLAN
- 802.1p Priority Queue Mapping
- Auto Surveillance VLAN
- Voice VLAN
- Loopback Detection
- Cable Diagnostics
- LLDP-MED

The DXS-1100 Series 10 Gigabit Ethernet Smart Managed Switches are a set of Smart Layer 2 10 Gb Ethernet switches that provide an entry-level solution for Small and Medium Businesses (SMB) wishing to deploy 10 Gb Ethernet. These switches are ideal for server farms or as network aggregation devices, and provide a cost-effective and feature-rich solution to 10 Gb Ethernet requirements.

Energy-Efficient

The DXS-1100 Series incorporates D-Link Green technology for increased energy efficiency. Smart fans and temperature sensors ensure that the fans are running at the optimum speed to keep the system cool. If the environment temperature is below a certain threshold or the switch is at low utilisation, the smart fans will automatically slow down, resulting in lower power consumption and noise output. Meanwhile, the Link Status feature can reduce power utilisation by powering down inactive ports and putting them into sleep mode. The DXS-1100 Series also takes its Green credentials one step further by incorporating a chipset with advanced silicon technology for reduced power usage.

Easy to Deploy

The DXS-1100 Series supports an intuitive client-based utility (SmartConsole Utility or D-Link Network Assistant Utility) and a web-based management interface. The client-based utility allows customers to discover all switches in the D-Link Smart Switch family within the same L2 network segment. With this utility, users do not need to change the IP address of their PC, making initial setup of the Smart Switches quick and easy. Switches within the same L2 network segment that are connected to the user's PC are displayed on-screen for instant access. This allows for extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades. The graphical web-based management interface provides a user-friendly interface that enables network administrators to remotely control their network down to the port level.



Auto Surveillance VLAN and Bandwidth Control

The DXS-1100 Series supports Auto Surveillance VLAN (ASV), and Auto Voice VLAN, which are best suited for Voice over IP (VoIP) and video surveillance deployments. Auto Surveillance VLAN is a new, industry-leading technology that the DXS-1100 Series provides. This technology consolidates data and surveillance video transmission through a single unit, sparing businesses the expense of dedicated hardware and facilities. ASV also ensures the quality of real-time video for monitoring and control without compromising the transmission of conventional network data. The Auto Voice VLAN technology enhances VoIP functionality by automatically placing voice traffic from an IP phone onto an assigned VLAN. With higher priority and an individual VLAN, these features guarantee the quality and security of VoIP traffic across the network. In addition, with Bandwidth Control, network administrators can reserve bandwidth for important functions that require higher priority or more bandwidth.

Advanced Features

The DXS-1100 Series is equipped with advanced security features such as Static MAC, Storm Control, and IGMP Snooping. Static MAC allows users to create a MAC whitelist for specific ports, helping administrators limit network access to authorised devices only. Storm Control monitors broadcast, multicast, or unknown unicast traffic and will start blocking or discarding packets which could flood the network when the defined threshold is exceeded. IGMP Snooping is capable of reducing the load of L3 multicast routers and save bandwidth in network throughput.

Easy Troubleshooting

The DXS-1100 Series features Loopback Detection and Cable Diagnostics to help network administrators quickly find and solve network problems. Loopback Detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable Diagnostics helps network administrators quickly examine the quality of the copper cables, recognise the cable type and detect cable errors.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

D-Link Assist Gold - for comprehensive 24-hour support

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

D-Link Assist Silver - for prompt same-day assistance

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist Bronze - for guaranteed response on the next business day

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.



echnical Specifications			
Model Number	• DXS-1100-10TS	• DXS-1100-16SC	
General			
Hardware Version	• A1		
Size	 17-inch rackmount width 10 height 		
Number of Ports	• 8 x 10GBASE-T ports • 14 x SFP+ ports		
	• 2 x SFP+ ports	• 2 x 10GBASE-T/SFP+ combo ports	
Port 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 IEEE 802.3x Flow Control		
	Auto-MDI/MDIX support for 1000/10GBASE-T		
Performance			
Switching Capacity	• 200 Gbps	• 320 Gbps	
Maximum Forwarding Rate	• 148.801 Mpps	• 238.096 Mpps	
MAC Address Table Size	• 16,384 entries		
Packet Buffer	• 2 MB		
Flash Memory	• 128 MB		
Power Consumption			
Maximum Power Consumption	• 50.9 W	• 60.0 W	
Standby Power Consumption	• 16.1 W	• 14.35 W	
Physical			
Power Input	• 100 to 240 V AC		
MTBF	• 585,959 hours	 254,038 hours 	
Acoustics	• 46.4 dB(A)	• 48.0 dB(A)	
Heat Dissipation	• 173.57 BTU/h	• 204.73 BTU/h	
Weight	• 2.686 kg (5.93 lbs)	• 2.91 kg (6.42 lbs)	
Dimensions (L x W x H)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)	
Ventilation	• 2 x Smart Fans		
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		
EMI	• CE, FCC, RCM, VCCI, BSMI, CCC		
	• cUL, CB, CE, CCC, BSMI		



Software Features		
VLAN	 802.1Q VLAN Port-based VLAN 128 VLAN groups Configurable VID 1-4094 	 Voice VLAN Auto Surveillance VLAN Asymmetric VLAN
L2 Features	 MAC Address Table Up to 16,384 entries Static MAC Address 512 entries IGMP Snooping IGMP v1/v2 Snooping Supports up to 512 IGMP groups Supports 512 static multicast addresses MLD Snooping MLD v1 Snooping MLD v1 Snooping MLD v2 Awareness Supports 512 static multicast addresses LLDP LLDP LLDP-MED Spanning Tree Protocol 802.1D STP 802.1w RSTP 	 Flow Control 802.3x Flow Control HOL Blocking Prevention Port Mirroring One-to-One Many-to-One Support Mirroring for Tx/Rx/Both Link Aggregation 802.1AX 802.3ad Maximum of 5 groups/ 4 ports per group Jumbo Frame Up to 9,216 Bytes Loopback Detection
Quality of Service (QoS)	 CoS based on 802.1p Priority 802.1p Priority Queue 8 queues per port 	 Queue Handling Strict Priority Queue Weighted Round Robin (WRR) Bandwidth Control Port-based (Ingress/Egress, min. granularity 64 Kbps)
L3 Features	• IPv6 Neighbor Discovery (ND)	
Security	 Broadcast/Multicast/Unicast Storm Control D-Link Safeguard Engine Traffic Segmentation SSL Support v1/v2/v3 Support IPv4/IPv6 	 ARP Spoofing Prevention Max. 128 entries DoS Attack Prevention Port Security Supports up to 64 MAC addresses per port Duplicate Address Detection (DAD)
Operations, Administration, and Maintenance (OAM)	Cable Diagnostics	
AAA	Authentication for management access	
Management	 Web-based GUI D-Link Network Assistant Utility TFTP client SNMP Support v1/v2c/v3 SNMP trap 	 LLDP LLDP-MED System Log SNTP ICMPv6 Dual Images Dual Configurations RMON v1/v2
Green Technology	 Power Saving by: Link Status Cable Length 	 LED Shutoff Port Shutoff System Hibernation

MIB/RFC Standards	 RFC783 TFTP RFC951 BootP/DHCP Client RFC1157 SNMP v1, v2, v3 RFC1213 MIB II RFC1215 MIB Traps Convention RFC1350 TFTP RFC1493 Bridge MIB RFC1542 Bootp/DHCP Client RFC1769 SNTP RFC1901 SNMP v1, v2, v3 RFC2131 Bootp/DHCP Client RFC2246 SSL RFC2461 Neighbor Discovery for IPv6 RFC2570 SNMP v1, v2, v3 RFC2575 SNMP v1, v2, v3 	 RFC2598 CoS RFC2674 802.1 p MIB RFC3164 System Log RFC3195 System Log RFC3411~17 SNMP RFC4213 IPv4/IPv6 dual stack RFC4293 IPv6 SNMP mgmt. Interface MIB RFC4363 802.1 p MIB RFC4861 Neighbor Discovery for IPv6 DLINK Private MIB LLDP MIB Zone Defense MIB Interface Group MIB 		
Optional 10 Gigabit Eth	ernet SFP+ Direct Attach Cables			
DEM-CB100S	10GbE SFP+ 1 m Direct Attach Cable			
DEM-CB300S	10GbE SFP+ 3 m Direct Attach Cable	10GbE SFP+ 3 m Direct Attach Cable		
Optional Gigabit Etherr	net SFP transceivers			
DEM-310GT	1000BASE-LX Single-Mode, 10 km			
DEM-311GT	1000BASE-SX Multi-mode, 550 m			
DEM-312GT2	1000BASE-SX Multi-mode, 2 km	1000BASE-SX Multi-mode, 2 km		
Optional 10 Gigabit Eth	ernet 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-432XT-DD	10GBASE-LR Single-Mode, 10 km (with DDM)			
Optional 10 Gigabit Eth	ernet Adapter			
DXE-820T	Dual Port 10GBASE-T RJ-45 PCI Express Adapter			



For more information: www.dlink.com

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