

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-1100-10TS

10-Port 10 Gigabit Ethernet Smart Switch

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-1100-10TS 10-Port 10 Gigabit Ethernet Smart Switch provides an entry-level solution for Small and Medium Businesses wishing to deploy 10 Gb Ethernet. 8 x 10 GBase-T ports instantly increases network bandwidth over standard Cat 6a cabling without the need to overhaul existing network infrastructure wiring. 2 x 10 Gigabit SFP+ fibre ports provide additional network connection flexibility. It is ideal for server farms or as a network aggregation device and provides a cost-effective but feature-rich solution to growing and demanding network environments.

Energy Saving

The DXS-1100-10TS 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 cool the system. If the environment temperature is suitable and the switch is at low utilisation, the smart fans can reduce their speed, resulting in lower power consumption and noise output. The Link Status feature can reduce power utilisation by powering-down inactive ports and putting them into sleep mode. Incorporating a chipset with advanced silicon technology enables the DXS-1100-10TS to further reduced power consumption.

Easy to Deploy

The DXS-1100-10TS supports intuitive client-based utilities (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, and this also makes 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 graphic 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-1100-10TS supports Auto Surveillance VLAN (ASV) and Auto Voice VLAN, which are ideal for Voice over IP (VoIP) and video surveillance deployments. Auto Surveillance VLAN is an industry-leading technology that automatically prioritises video surveillance data traffic. This ensures the reliability of real-time video monitoring 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 into an assigned VLAN. With higher priority and individual VLAN, these features guarantee the quality and security of VoIP traffic across the network. In addition, Bandwidth Control can reserve bandwidth on a per port basis for important functions that require larger bandwidth or might have high priority.

Advanced Features

The DXS-1100-10TS 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 able to reduce the loading of L3 multicast routers and save bandwidth in network throughput.

Easy Troubleshooting

The DXS-1100-10TS features Loopback Detection and Cable Diagnostics to help network administrators find and solve network problems quickly and easily. Loopback Detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable Diagnostics help 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.

Technical Specifications	
General	DXS-1100-10TS
Size	<ul style="list-style-type: none"> • 17-inch rackmount width • 1U height
Number of Ports	<ul style="list-style-type: none"> • 8 port 10GBASE-T • 2 port SFP+
Port Functions	<ul style="list-style-type: none"> • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet <ul style="list-style-type: none"> • IEEE 802.3az compliance • IEEE 802.3an 10GBASE-T 10GbE over copper <ul style="list-style-type: none"> • IEEE 802.3ae 10GbE over fiber • IEEE 802.3z 1000BASE-X • Auto MDI/MDIX support for 1000/10GBASE-T
Performance	
Switching Capacity	• 200 Gbps
Maximum Forwarding Rate	• 148.81 Mpps
MAC Address Table Size	• 16K entries
Packet Buffer	• 2 Mbps
Flash Memory	• 2 Mbytes
Power Consumption	
Maximum Power Consumption	• 50.9 W
Standby Power Consumption	• 16.1 W
Physical	
Power Input	• 100 to 240 V AC
MTBF	• 585,959 hours
Acoustics	• 46.4 dB(A)
Heat Dissipation	• 173.57 BTU/h
Weight	• 2.71 kg (5.97 pounds)
Dimensions	• 441 x 44 x 210 mm (17.36 x 1.73 x 8.27 inches)
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
Safety	• cUL, CB, CE, CCC, BSMI

Software Features		
VLAN	<ul style="list-style-type: none"> • 802.1Q VLAN • Port-based VLAN <ul style="list-style-type: none"> • 128 VLAN groups • Configurable VID <ul style="list-style-type: none"> • 1-4094 	<ul style="list-style-type: none"> • Voice VLAN • Auto Surveillance VLAN • Asymmetric VLAN
L2 Features	<ul style="list-style-type: none"> • MAC Address Table <ul style="list-style-type: none"> • Up to 16384 entries • Static MAC Address <ul style="list-style-type: none"> • 512 entries • IGMP Snooping <ul style="list-style-type: none"> • IGMP v1/v2 Snooping • Supports up to 512 IGMP groups • Supports 512 static multicast addresses • MLD Snooping <ul style="list-style-type: none"> • MLD v1 Snooping • MLD v2 Awareness • Supports up to 512 MLD groups • Supports 512 static multicast addresses • LLDP • LLDP-MED • Spanning Tree Protocol <ul style="list-style-type: none"> • 802.1D STP • 802.1w RSTP 	<ul style="list-style-type: none"> • Flow Control <ul style="list-style-type: none"> • 802.3x Flow Control • HOL Blocking Prevention • Port Mirroring <ul style="list-style-type: none"> • One-to-One • Many-to-One • Support Mirroring for Tx/Rx/Both • Link Aggregation <ul style="list-style-type: none"> • 802.1AX • 802.3ad • Maximum of 5 groups/ 4 ports per group • Jumbo Frame <ul style="list-style-type: none"> • Up to 9 KB • Loopback Detection
Quality of Service (QoS)	<ul style="list-style-type: none"> • CoS based on <ul style="list-style-type: none"> • 802.1p Priority • 802.1p Priority Queue • 8 queues per port 	<ul style="list-style-type: none"> • Queue Handling <ul style="list-style-type: none"> • Strict Priority Queue • Weighted Round Robin (WRR) • Bandwidth Control <ul style="list-style-type: none"> • Port-based (Ingress/Egress, min. granularity 64 Kbps)
L3 Features	<ul style="list-style-type: none"> • IPv6 Neighbor Discovery (ND) 	
Security	<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • Traffic Segmentation • SSL <ul style="list-style-type: none"> • Support v1/v2/v3 • Support IPv4/IPv6 	<ul style="list-style-type: none"> • ARP Spoofing Prevention <ul style="list-style-type: none"> • Max. 128 entries • DoS Attack Prevention <ul style="list-style-type: none"> • Port Security • Supports up to 64 MAC address per port • Duplicate Address Detection (DAD)
Operations, Administration, and Maintenance	<ul style="list-style-type: none"> • Cable Diagnostics 	
AAA	<ul style="list-style-type: none"> • Authentication for management access 	
Management	<ul style="list-style-type: none"> • Web-based GUI • D-Link Network Assistant Utility • TFTP client • SNMP <ul style="list-style-type: none"> • Support v1/v2c/v3 • SNMP trap 	<ul style="list-style-type: none"> • LLDP • LLDP-MED • System Log • SNTP • ICMPv6 • Dual Images • Dual Configurations • RMON v1/v2
Green Technology	<ul style="list-style-type: none"> • Power Saving by: <ul style="list-style-type: none"> • Link Status • Cable Length • LED Shutoff • Port Shutoff • System Hibernation 	

DXS-1100-10TS 10-Port 10 Gigabit Ethernet Smart Switch

MIB/RFC Standards	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • RFC2598 CoS • RFC2674 802.1p MIB • RFC3164 System Log • RFC3195 System Log • RFC3411~17 SNMP • RFC4213 IPv4/IPv6 dual stack • RFC4293 IPv6 SNMP mgmt. Interface MIB • RFC4363 802.1p MIB • RFC4861 Neighbor Discovery for IPv6 • DLINK Private MIB • LLDP MIB • Zone Defense MIB • Interface Group MIB
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Optional 10 Gigabit Ethernet SFP+ Direct Attach Cables

DEM-CB100S	10GbE SFP+ 1 m Direct Attach Cable
DEM-CB300S	10GbE SFP+ 3 m Direct Attach Cable

Optional Gigabit Ethernet 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
DEM-314GT	1000BASE-LHX Single-mode, 50 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-432XT-DD	10GBASE-LR Single-Mode, 10 km (with DDM)

Optional 10 Gigabit Ethernet Adapter

DXE-820T	Dual Port 10GBASE-T RJ-45 PCI Express Adapter
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For more information: www.dlink.com

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