

Highlights

10-Gigabit Ethernet Connection

10G Ethernet helps to ensure that high bandwidth demands can be fulfilled easily, and allows for device flexibility across your network

Improved Power Efficiency

Innovative D-Link Green features help conserve energy without sacrificing performance, reducing operating costs and protecting the environment

Easy to Deploy

Simplify deployment with intuitive GUI tools; quickly discover and set up devices without the need for IP re-configuration.



DXS-1100 Series

10G Easy Smart Switches

Features

PoE Functionality¹

- IEEE 802.3bt or IEEE 802.3af/at compliant
- Up to 280W PoE budget
- Fast and perpetual PoE

Green Technology

- LED/port shut-off
- System hibernation

Security

- Port security
- D-Link Safeguard Engine
- SSL/TLS

Traffic Monitoring and Bandwidth Control

- Port mirroring/bandwidth control
- Broadcast/mirroring/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

Management Features

- Web-based GUI
- Supports Nuclias Unity, Nuclias hardware controller(v1.3.3 or later), and Nuclias software controller (v1.0.2 or later) for centralized management, monitoring, and maintenance

Overview

The DXS-1100 Series 10 Gigabit Ethernet Smart Managed Switch is a smart layer 2 switch that provides an entry-level solution for Small and Medium Businesses (SMB) wishing to deploy 10G Ethernet connectivity. The switch is ideal for server farms or as network aggregation devices, providing a cost-effective and feature-rich solution to 10G Ethernet requirements.

Copper



DXS-1100-10

- 8 x 10GE
- 2 x 10G SFP+

PoE



DXS-1100-10P

- 8 x 10GE, PoE++, with 280W power budget
- 2 x 10G SFP+



DXS-1100-10TP

- 8 x 10GE, PoE+, with 240W Power Budget
- 1 x 10GE
- 1 x 10G SFP+

DXS-1100 Series 10G Easy Smart Switches

Multi-G Speeds for Wi-Fi 7 Networks

The DXS-1100 PoE model provides full 100M/1/2.5/5/10Gbps Ethernet ports to significantly upgrade network performance with increased bandwidth suitable for Wi-Fi 7 applications such as high-speed streaming environments. It also provides additional 10 Gbps SFP+ ports for high-speed uplink connections and increase overall efficiency of data network.

Enhanced 6kV Surge Protection

The DXS-1100-10TP switches offer enhanced 6kV surge protection on all 10-Gigabit Ethernet access ports. The 6kV surge protection helps shield the switches against sudden electrical surges, such as lightning strikes or unstable electrical current. Built-in 6kV surge protection helps reduce the chances of equipment being damaged from electrical surges and effectively lowers maintenance costs by minimizing the need for expensive repairs and replacement.

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 authorized 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, recognize the cable type, and detect cable errors.

Surveillance VLAN and Bandwidth Control

The DXS-1100 Series supports surveillance VLAN for IP surveillance deployments. This gives video traffic a dedicated VLAN and higher priority through the switch, separating surveillance traffic from the rest of the network. This ensures security and guarantees the quality of the video traffic, sparing businesses the added cost of dedicated surveillance hardware. Bandwidth Control can reserve bandwidth on a per-port basis for important functions that require larger bandwidth or have higher priority.

PoE+ Availability

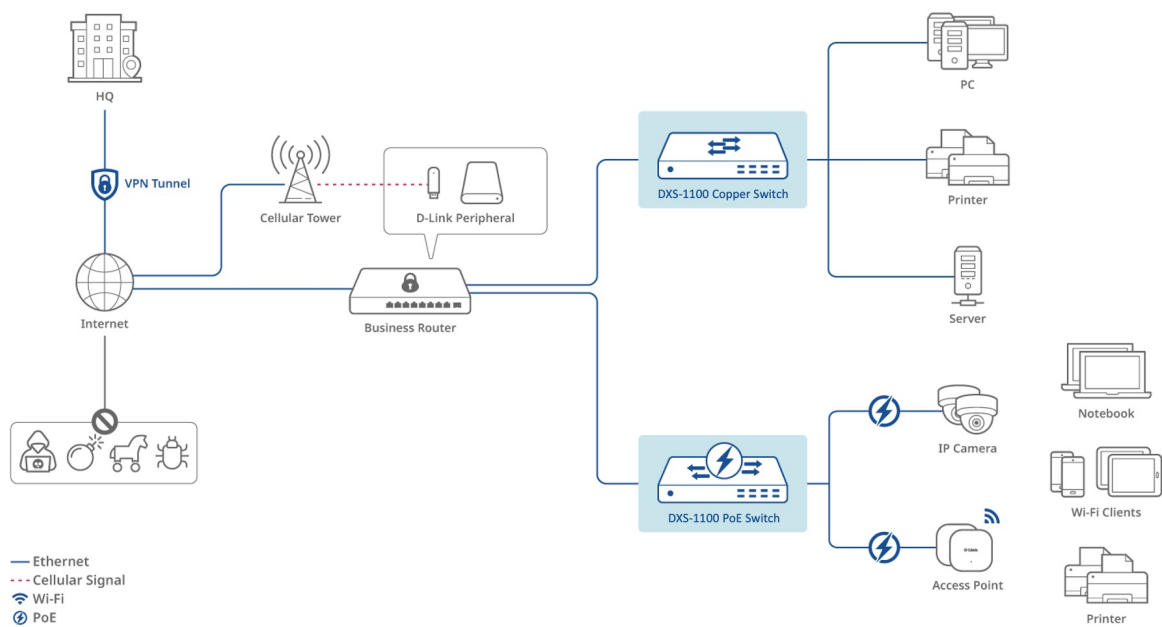
The DXS-1100-10P supports the IEEE 802.3bt (PoE++) standard with a power budget of up to 280W, while the DXS-1100-10TP supports 802.3at (PoE+) with up to 240W. These models are engineered to power high-demand devices such as video phones, PTZ cameras, and Wi-Fi 6/7 APs. Furthermore, these switches feature Perpetual PoE, ensuring uninterrupted power delivery to connected devices (PD) even during a switch reboot. Integrated Extended LLDP technology also enables automatic negotiation and intelligent power management for both PoE+ and PoE++ devices, ensuring optimal power distribution across the network.

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 utilization, the smart fans will automatically slow down, resulting in lower power consumption and noise output. Meanwhile, the Link Status feature can reduce power utilization 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.

DXS-1100 Series 10G Easy Smart Switch

Connection Diagram



DXS-1100 Series 10G Easy Smart Switches

Specifications

Model	DXS-1100-10	DXS-1100-10P	DXS-1100-10TP
Hardware Version	B1	B1	B1
General			
Interface	• 8 x 100/1000/2.5/5/10GBASE-T ports • 2 x 10G SFP+ ports	• 8 x 100/1000/2.5/5/10GBASE-T (PoE++) ports • 2 x 10G SFP+ ports	• 8 x 100/1000/2.5/5/10GBASE-T (PoE+) ports • 1 x 100/1000/2.5/5/10GBASE-T port • 1 x 10G SFP+ ports
Port Standards	• IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.3bz 2.5GBASE-T and 5GBASE-T • IEEE 802.3an 10GBASE-T • IEEE802.3ae 10G Ethernet over fiber • IEEE802.3z 1000BASE-X • IEEE 802.3az Enerby-Efficient Ethernet (EEE)	• IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.3bz 2.5GBASE-T and 5GBASE-T • IEEE 802.3an 10GBASE-T • IEEE802.3ae 10G Ethernet over fiber • IEEE802.3z 1000BASE-X • IEEE 802.3az Enerby-Efficient Ethernet (EEE) • IEEE 802.3af/at PoE • IEEE 802.3bt PoE	• IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.3bz 2.5GBASE-T and 5GBASE-T • IEEE 802.3an 10GBASE-T • IEEE802.3ae 10G Ethernet over fiber • IEEE802.3z 1000BASE-X • IEEE 802.3az Enerby-Efficient Ethernet (EEE) • IEEE 802.3af/at PoE
Network Cables	• UTP Cat. 5e above cables for 100/1G/2.5G/5GBASE-T (max 100m) • UTP Cat. 6A above cables for 10GBASE-T (max 100m)	• UTP Cat. 5e above cables for 100/1G/2.5G/5GBASE-T (max 100m) • UTP Cat. 6A above cables for 10GBASE-T (max 100m)	• UTP Cat. 5e above cables for 100/1G/2.5G/5GBASE-T (max 100m) • UTP Cat. 6A above cables for 10GBASE-T (max 100m)
Media Interface Exchange	Auto MDI/MDIX	Auto MDI/MDIX	Auto MDI/MDIX
Performance			
Switching Capacity	200 Gbps	200 Gbps	200 Gbps
Transmission Method	Store-and-forward	Store-and-forward	Store-and-forward
MAC Address Table	32K	32K	32K
Static MAC Addresses	256 entries	256 entries	256 entries
Packet Forwarding Rate	148.8 Mpps	148.8 Mpps	148.8 Mpps
Packet Buffer Memory	2 MB	2 MB	2 MB
Flash Memory	32MB	32MB	32MB
DRAM Size	512MB	512MB	512MB
PoE			
PoE Standard	N/A	• IEEE 802.3af/at (up to 30W) • IEEE 802.3bt (up to 90W)	IEEE 802.3af/at (up to 30W)
PoE Capable Port	N/A	8	8
PoE Power Budget	N/A	280 W	240 W
Physical			
Power Input	100 to 240V AC 50/60 Hz	100 to 240V AC 50/60 Hz	100 to 240V AC 50/60 Hz
Surge Protection	Common ±1 kV (Provisioned for 6kV)	Common ±1 kV (Provisioned for 6kV)	• IEEE61000-4-5 surge protection compliance • 6kV surge protection on all 10-Gigabit Ethernet ports
Fan	1 internal fans	2 internal fans	2 internal fans
Operating Temperature	-5 to 50°C (23 to 122°F)	-5 to 50°C (23 to 122°F)	-5 to 50°C (23 to 122°F)
Storage Temperature	-20 to 70°C (-4 to 158°C)	-20 to 70°C (-4 to 158°C)	-20 to 70°C (-4 to 158°C)
Operating Humidity	0% to 90% relative humidity	0% to 90% relative humidity	0% to 90% relative humidity
Storage Humidity	0% to 95% relative humidity	0% to 95% relative humidity	0% to 95% relative humidity
Max Power Consumption	48.77 W	• 375.92 W (PoE on) • 57.01 W (PoE off)	• 320.53 W (PoE on) • 53.54 W (PoE off)
Dimensions (L x W x H)	330x250x44 mm (12.99 x 9.84 x 1.73 in)	330x250x44 mm (12.99 x 9.84 x 1.73 in)	330 x 250 x 44 mm (12.99 x 9.84 x 1.73 in)
Weight	2.4 kg (5.29 lbs)	2.9 kg (6.39 lbs)	2.9 kg (6.39 lbs)

DXS-1100 Series 10G Easy Smart Switches

Specifications

Model	DMS-1250-10S	DMS-1250-10SP	DMS-1250-10SPL
Certifications			
Safety	CB, UL, BSMI	CB, UL, BSMI	CB, UL, BSMI
EMI	CE Class A, VCCI Class A, FCC Class A, BSMI, RCM	CE Class A, VCCI Class A, FCC Class A, BSMI, RCM	CE Class A, VCCI Class A, FCC Class A, BSMI, RCM

Software

Feature		
L2 Features	• Flow Control - 802.3x Flow Control - HOL Blocking Prevention • Jumbo frames up to 12K bytes • IGMP Snooping - IGMP v1/v2 snooping - Supports 512 groups - Supports 128 IGMP groups	• Spanning Tree Protocol - 802.1D STP - 802.1w RSTP • Loopback Detection • Cable diagnostics • Port Mirroring - One-to-One - Many-to-One
VLAN	• Port-based VLAN • 802.1Q VLAN • Auto Surveillance VLAN	• Voice VLAN • 128 VLAN group • Asymmetric VLAN
Quality of Service (QoS)	• 802.1p Quality of Service • Queue Handling - Strict Priority Queue (SPQ) - Weighted Round Robin (WRR)	• Bandwidth Control - Port-based (ingress/egress, min granularity 10/100/1000 is 16 Kbps) • DSCP
Security Features	• Static MAC addresses - Up to 256 entries • Traffic segmentation	• Broadcast/Multicast/Unicast Storm Control • Port security
PoE Features	• Perpetual PoE • Fast PoE	• Auto PoE PD Discovery
Management	Web-based GUI (Supports IPv4/IPv6/HTTPS)	
Green Technology	• Compliant with RoHS 6	• IEEE 802.3az Energy Efficient Ethernet (EEE) compliance
RFC Standards	• RFC768 UDP • RFC791 IP • RFC792 ICMPv4 • RFC793 TCP • RFC826 ARP	• IEEE 802.1p • RFC2236, IGMP Snooping • RFC1213 MIBII • RFC1215 MIB Traps Convention

Ordering Information

Model	Description
DXS-1100-10	8 Ports 10G + 2 Ports 10G SFP+ Easy Smart Switch
DXS-1100-10P	8 Ports 10G PoE++ + 2 Ports 10G SFP+ Easy Smart Switch, 280W
DXS-1100-10TP	8 Ports 10G PoE+ + 1 Port 10G + 1 Port 10G SFP+ Easy Smart Switch, 240W

Actual performances may vary due to settings, cabling, temperature, network configuration, interface, device compatibility, environmental and on-site conditions, and other similar factors. References to power capability, signal or processing speed, signal range or distance, data encryption, storage capacity, display properties, or other performance metrics are based on optimal conditions derived from industry standards and provided for informational purposes only. Specifications may be subject to change without prior notice.