

Product Highlights

Feature-Rich Software

An integrated software image provides powerful L2 and L3 features to fulfill different applications requirements, capable of building more solid, reliable networks.

Embedded 25G Ports

Four embedded high-speed 25G ports simplify the network deployment by providing versatile options for uplink connections.

Scalability and High Availability

Physical stacking provides agile expansion and redundancy while reliability through fault tolerant topologies provides more solid connectivity.



DXS-3130-28

10G Layer 3 Stackable Aggregation Managed Switch

Key Features

High Availability and Flexibility

- Variety of high-speed interface combinations to meet different network requirements
- 5-speed smart fan design automatically adjusts according to device operating temperature

Enhanced Functions

- Redundant power supply (RPS) support
- Ethernet Ring Protection Switching (ERPS)
- Embedded 6kV surge protection on all Ethernet ports
- IEEE 802.1D/802.1w/802.1s Spanning Tree
- · Loopback Detection (LBD)

L3 Features

- Static Route
- RIP/RIPng
- OSPFv2/v3

Operations, Administration and Maintenance

- IEEE 802.3ah Ethernet Link OAM
- IEEE 802.1ag/ITU-T Y.1731 Service OAM

High Bandwidth Stacking

- Physical stack of up to 9 units via four 25G ports
- 200 Gbps per device physical stacking bandwidth

The DXS-3130-28 10G Layer 3 Stackable Aggregation Managed Switch is for secure connectivity in an enterprise or metro Ethernet access network and supports both multicasting and enhanced security, making it an ideal 10G/multi-Gigabit access layer solution. The DXS-3130-28 features 24 10G/multi-Gigabit ports and 4 10/25G SFP28 ports, offering a versatile and high-speed networking connection. The switch features 4 10/25G SFP28 ports for enhanced speed and versatility. It also includes a USB 2.0 port, enabling direct booting of images and uploading of configuration files, as well as convenient storage of syslog files on a USB 2.0 device.

Enhanced Network Reliability

The DXS-3130-28 targets enterprises and metro Ethernet applications, and customers who require a high level of network security and maximum uptime. The DXS-3130-28 features redundant power supply (RPS) and incorporate essential features to enhance network resilience, including 802.1D Spanning Tree (STP), 802.1w Rapid Spanning Tree (RSTP), 802.1s Multiple Spanning Tree (MSTP), Loopback Detection (LBD), and Broadcast Storm Control. G.8032 Ethernet Ring Protection Switching (ERPS) minimizes recovery time to 50 ms. For load sharing and redundancy backup in a switch cascading/server attachment configuration, the DXS-3130-28 provides dynamic 802.3ad Link Aggregation Port Trunking.

Comprehensive Security

The DXS-3130-28 provides users with the latest security features such as Multi-layer and Packet Content Access Control Lists (ACL), Storm Control, and IP-MAC-Port Binding (IMPB) with DHCP Snooping. The IP-MAC-Port Binding feature allows administrators to bind a source IP address with an associated MAC and define the port number to enhance user access control. With the DHCP Snooping feature, the switch automatically learns IP/MAC pairs by snooping DHCP packets and saving them to the IMPB white list.

Intelligent Fan Operation

The DXS-3130-28 has built-in internal fans which can automatically start working to help prevent the device from overheating. The fan speed will be gradually adjusted between 5 levels of cooling according to the operating temperature of the switch. Administrators can also configure the operation state of internal fans through Web UI or command line interface (CLI).

Easy Access Control Policies

The DXS-3130-28 supports authentication mechanisms such as 802.1X, Web-based Access Control (WAC), and MAC-based Access Control (MAC) for strict access control and easy deployment. After authentication, individual policies such as VLAN membership, QoS policies, and ACL rules can be assigned to each host.

Versatile Traffic Management

The DXS-3130-28 implements a rich set of multi-layer QoS/CoS features to enable critical network services such as VoIP, video conferences, IPTV, and IP surveillance are always given high priority. Traffic Shaping features provide bandwidth for these services when the network is busy. L2 Multicast support enables the DXS-3130-28 to handle growing IPTV applications.

Host-based IGMP/MLD Snooping feature allows for multiple multicast subscribers per physical interface while ISM VLAN allows the switches to send multicast streams in a multicast VLAN to save bandwidth and to provide better security to the backbone network. The ISM VLAN profiles allow administrators to bind or replace the pre-defined multicast registration information to subscriber ports quickly and easily.

High Availability and Flexibility

The DXS-3130-28 allows multiple switches to be combined to form a single physical or virtual stack. This increases redundancy over multiple physical units, simplifies management, and provides a single IP address to manage all members in the stack. Up to 9 switches can be combined using DACs/Fibers to make up to 200 Gigabit Ethernet ports available, allowing switching capacity to be increased with demand.

6kV Surge Protection

The DXS-3130-28 features built-in 6kV surge protection on all Ethernet access ports, and requires no external surge protection equipment. This effectively protects the switches against sudden electrical surges caused events such as lightning strikes or unstable electrical current. Built-in 6kV surge protection significantly reduces the chances of equipment being damaged from electrical surges, and effectively lowers maintenance costs by minimizing the need for expensive equipment repairs or replacement.

Manageability

D-Link's Single IP Management (SIM) feature simplifies and speeds up management tasks, allowing multiple switches to be configured, monitored, and maintained from any workstation running a web browser and with network connectivity. All switches can be managed as a virtual stack, allowing physically separate switches to be managed using a single IP address. The DXS-3130-28 also supports management tools such as a Web UI, SSH, Telnet, and console, and standards-based protocols such as SNMP, RMON, and SSL.

Technical Specifications

Interface		
Ports	• 24 x 100M/1G/2.5G/5G/10GBASE-T ports	• 4 x 10/25G SFP28 ports
Optional Redundant Power Supply	• DPS-500A	• DPS-500DC
Console Port	RJ-45 port for out-of-band CLI management	
Management Port	10/100/1000BASE-T RJ-45 port for out-of-band IP management	
Stacking Ports	4	
USB Ports	1 x USB 2.0 Type A port	
Performance		
Switching Capacity	680 Gbps	
64-Byte Packet Forwarding Rate	505.92 Mpps	
Packet Buffer Memory	4 MB	
Physical		
MTBF (Hours)	317,350.54 hours	
Acoustics	Max: 53.9 dB (fan high speed)	Min: 30.6 dB (fan low speed)
Heat Dissipation	261.291 BTU/h	
Power Input	100 to 240 VAC, 50 to 60 Hz	
Maximum Power Consumption	• Maximum: 76.58 W	• Standby: 32.857 W
Dimensions (W x D x H)	440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)	
Weight	3.525 kg	
Ventilation	3 x smart fans	
Power Surge Protection	IEC61000-4-5 6kV surge protection on all Ethernet ports	
Operating Temperature	0 to 50°C (32 to 122°F)	
Storage Temperature	-40 to 70°C (-40 to 158°C)	
Operating Humidity	10% to 90% relative humidity	
Storage Humidity	5% to 90% relative humidity	
Emission (EMI)	• FCC Class A • CE Class A • VCCI Class A	• IC • RCM • BSMI
Safety	• CB • cUL	• BSMI

Software Features		
Stackability	 Physical stacking Up to 9 units per stack Up to 200 Gbps stacking bandwidth Ring/chain topology support 	Virtual stackingD-Link Single IP Management (SIM)Up to 32 units per virtual stack
L2 Features	 MAC Address Table: 32K (32,768) entries Flow Control 802.3x Flow Control HOL Blocking Prevention Jumbo Frames up to 12 Kbytes 802.1AX/802.3ad Link Aggregation Max. 32 groups per device, 8 ports per group Spanning Tree Protocols 802.1D STP 802.1w RSTP 802.1s MSTP BPDU Filtering Root Guard Loop Guard 	 Loopback Detection Port Mirroring One-to-One, Many-to-One Mirroring for both Tx/Rx 4 mirroring groups Flow mirroring Supports Mirroring for Tx/Rx VLAN Mirroring RSPAN L2 Protocol Tunneling Ethernet Ring Protection Switching (ERPS) v1/v2
L2 Multicasting	 IGMP Snooping IGMP v1/v2/v3 Snooping 1024 IGMP groups IGMP Snooping Fast Leave 128 static IGMP groups Per VLAN IGMP Snooping Data Driven Learning IGMP Snooping Querier IGMP Authentication IGMP Accounting 	 Report Suppression MLD Snooping MLD v1/v2 Snooping 1024 MLD Groups MLD Snooping Fast Leave 64 static MLD groups MLD Snooping Querier Per VLAN MLD Snooping MLD Proxy Reporting
L3 Multicasting	• IGMP v1/v2/v3	• PIM-SM for IPv4
VLAN	VLAN Group Max. 4K VLAN groups Max. 1~4094 VIDs GVRP Max. 4K dynamic VLAN groups Double VLAN (Q-in-Q) Port-based Q-in-Q Selective Q-in-Q Auto Surveillance VLAN Port-based VLAN	 802.1v Protocol-based VLAN Voice VLAN MAC-based VLAN VLAN translation Multicast VLAN (ISM VLAN for IPv4/IPv6) Asymmetric VLAN Private VLAN VLAN Trunking Super VLAN
Quality of Service	8 queues per port Queue Handling Strict Priority Weighted Round Robin (WRR) Strict + WRR Weighted Deficit Round Robin (WDRR) Policy Map Remark 802.1p priority Remark IP precedence/DSCP Congestion Control Weighted Random Early Detection (WRED) CoS based on Switch port Inner/Outer VID Inner/Outer 802.1p Priority MAC address IP address DSCP Protocol type TCP/UDP port IPv6 traffic class IPv6 flow label	Bandwidth Control Port-based (ingress/egress, min. granularity 8 Kbps) Flow-based (ingress/egress, min. granularity 8 Kbps) Per queue bandwidth control (min. granularity 8 Kbps) Three Color Marker CIR/PIR minimum granularity: 8 kbps trTCM srTCM

Access Control List (ACL)	• ACL based on • 802.1p priority • VID • MAC address • Ether Type • LLC • VLAN • IP address • IP preference/ToS • DSCP mask • Protocol type • TCP/UDP port number • IPv6 Traffic Class • IPv6 Flow Label	 Time-based ACL CPU Interface Filtering Max. ACL entries: Ingress (hardware entries): 3072 Egress (hardware entries): 1024 VLAN Access Map Numbers: 100
Security	Port Security Supports up to 64 MAC addresses per port Broadcast/Multicast/Unicast Storm Control D-Link Safeguard Engine DHCP Server Screening IP Source Guard DHCP Snooping IPv6 Snooping Dynamic ARP Inspection (DAI) DHCPv6 Guard IPv6 Route Advertisement (RA) Guard IPv6 ND Inspection Duplicate Address Detection (DAD) ARP Spoofing Prevention Max. 64 entries	 L3 Control Packet Filtering Traffic Segmentation SSL TLS 1.0/1.1/1.2 IPv4/IPv6 access SSH Supports SSH v2 Supports IPv4/IPv6 access BPDU Attack Protection DoS Attack Prevention
AAA	Guest VLAN 802.1X Authentication Supports port/host-based access control Identity-driven Policy Assignment Dynamic VLAN Assignment Ingress/Egress Bandwidth Control ACL Assignment Privilege Level for Management Access Trusted Host RADIUS/TACACS+ Accounting Web-based Access Control (WAC) Port/host-based access control Identity-driven Policy Assignment Dynamic VLAN Assignment Support IPv4 access Ingress/Egress Bandwidth Control ACL Assignment	RADIUS and TACACS+ Authentication Compound Authentication MAC-based Access Control (MAC) Supports port/host-based access control Identity-driven Policy Assignment Dynamic VLAN Assignment Ingress/Egress Bandwidth Control ACL Assignment
Green Features	Energy-Efficient Ethernet (EEE) Power saving by link status Power saving by LED shut-off	Power saving by port shut-offPower saving by system hibernation
OAM (Operations, Administration and Maintenance)	802.3ah Ethernet Link OAM D-Link Unidirectional Link Detection (DULD) Dying Gasp	 802.1ag Connectivity Fault Management (CFM) Y.1731 OAM Optical Transceiver Digital Diagnostic Monitoring (DDM)
L3 Features	 IPv4 ARP Entries 4096 256 Static ARP IPv6 ND Entries:1024 128 Static ND Entries IP Interface 128 interfaces 	 Gratuitous ARP Loopback Interface Proxy ARP Local ARP proxy VRRP v2/v3 IP Helper

	1024 hardware routing entries shared by IPv4/IPv6 1 entry consumed by each IPv4 route	PBR (Policy-based Route) Null Route
	• 2 entries consumed by each IPv6 route	Route Preference
	Up to 16K IPv4 / 8K IPv6 hardware L3 forwarding entries	Route Redistribution
	• 1 entry consumed by each IPv4 route	• RIPv1/v2/ng
L3 Routing	• 2 entries consumed by each IPv6 route	• OSPF
	• IPv4/IPv6 Static Route	• OSPF v2/v3
	Max. 512 IPv4 entries Max. 256 IPv6 entries	OSPF passive interfaceStub/NSSA area
	Equal-Cost Multi-Path Route (ECMP)	Equal-Cost Multi-Path Route (ECMP)
	• IPv4/IPv6 Default Route	• Text/MD5
	Web-based GUI	DHCP Auto-Configuration
	Support IPv4/IPv6 access Support SSL (LITTES)	DHCP/DHCPv6 Local Relay DUCP Palay Option 60/61/83/135
	Support SSL (HTTPS) Command Line Interface (CLI)	DHCP Relay Option 60/61/82/125Flash File System
	• Telnet Server for IPv4/IPv6	PPPoE Circuit-ID Tag Insertion
	Telnet Client for IPv4/IPv6	D-Link Discover Protocol (DDP)
	• TFTP Client for IPv4/IPv6	Debug command
	DNS Client for IPv4/IPv6	Support IPv4/v6 SNTP Server
	Secure FTP Server for IPv4/IPv6	• NTPv3/v4
	• SNMP	Password recovery/ encryption
Management	• v1/v2c/v3	DHCP server Support for IDv4/IDv6 address assignment
	IPv4/IPv6 access SNMP Traps	 Support for IPv4/IPv6 address assignment Command Logging
	System Log for IPv4/IPv6 Syslog Server	• SMTP
	• sFlow	DHCPv6 Prefix Delegation (PD)
	Multiple images/ Multiple Configurations	Ping/ Traceroute for IPv4/IPv6
	• RMON v1:	 Microsoft® Network Load Balancing (NLB)
	• 1, 2, 3, 9 groups	
	• RMON v2:	
	ProbeConfig group	
	LLDP/LLDP-MED BootP/DHCP Client	
	Booti / Bitel Client	
	RFC1065, RFC1066, RFC1155, RFC1156, RFC2578 MIB Structure	• RFC2620 RADIUS Accounting Client MIB
	RFC1212 Concise MIB Definitions	RFC2925 Ping & TRACEROUTE MIB
	RFC1212 Concise MIB Definitions RFC1213 MIBII	RFC2925 Ping & TRACEROUTE MIB TFTP uploads and downloads (D-Link MIB)
	RFC1212 Concise MIB Definitions	RFC2925 Ping & TRACEROUTE MIB TFTP uploads and downloads (D-Link MIB) Trap MIB (D-Link MIB)
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MIB RFC Standard Compliance	 RFC1212 Concise MIB Definitions RFC1213 MIBII RFC1215 MIB Traps Convention RFC1493, RFC4188 Bridge MIB RFC1157, RFC2571, RFC2572, RFC2573, RFC2574, RFC2575, C2576 SNMP MIB RFC1442, RFC1901, RFC1902, RFC1903, RFC1904, RFC1905, RFC1906, RFC1907, RFC1908, RFC2578, RFC3418, RFC3636 SNMPv2 MIB RFC271, RFC1757, RFC2819 RMON MIB RFC2021 RMONv2 MIB RFC1398, RFC1643, RFC1650, RFC2358, RFC2665, RFC3635 Etherlike MIB RFC2668 802.3 MAU MIB RFC2668 802.3 MAU MIB RFC2674, RFC4363 802.1 p MIB Interface Group MIB RFC2022 MIB for TCP RFC4012 MIB for UDP RFC 768 UDP RFC 793 TCP RFC 826 ARP RFC 3513, 4291, IPv6 Addressing Architecture RFC2474, RFC3168, RFC3260 Definition of the DS Field in the IPv4 and IPv6 Headers 	• RFC2925 Ping & TRACEROUTE MIB • TFTP uploads and downloads (D-Link MIB) • Trap MIB (D-Link MIB) • Entity MIB • VRRP MIB • RIPV2 MIB • RFC1850, RFC5643 OSPF MIB • RFC4293 IPV6 SNMP Mgmt Interface MIB • DDM MIB (D-Link MIB) • Private MIB • MIB for D-Link Zone Defense • RFC3621 Power Ethernet MIB • DDP MIB • LLDP-MED MIB • ITP Forwarding Table MIB • IP Forwarding Table MIB • RFC2574 User-based Security Model for SNMPv3 • RFC1981 Path MTU Discovery for IPv6 • RFC2460 IPv6 • RFC 2571, 2572, 2573, 2574, SNMP • RFC 854 Telnet
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Order Information		
DXS-3130-28	24 Ports 10G + 4 Ports 25G SFP28 Managed Switch	
Optional Direct Attach Cables		
DEM-CB100S	1 m 10G SFP+ Direct Attach Cable (DAC)	
DEM-CB300S	3 m 10G SFP+ Direct Attach Cable (DAC)	
DEM-CB700S	7 m 10G SFP+ Direct Attach Cable (DAC)	
DEM-CB100Q28-4S28	1 m 100G QSFP28 to 4x 25G SFP28 Direct Attach Cable (DAC)	
DEM-CB100S28	1 m 25G SFP28 Direct Attach Cable (DAC)	
Optional Redundant Power Supplies		
DPS-500A	AC Redundant Power Supply	
DPS-500DC	DC Redundant Power Supply	
Optional SFP+ Trasceivers		
DEM-410T	10GBASE-T Copper SFP+ Transceiver (w/o DDM), 30 m	
DEM-431XT	10GBASE-SR Multi-Mode, OM1:33M/OM2:82M/OM3:300M (w/o DDM)	
DEM-432XT	10GBASE-LR Single-Mode, 10 km (w/o DDM)	
Optional 25 Gigabit Ethernet SFP28 Trasceivers		
DEM-S2801SR	25G SFP28 Multi-Mode, 100 m Transceiver	
DEM-S2810LR	25G SFP28 Single-Mode 10 km Transceiver	

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.

