

Product Highlights

Feature-Rich Software

An integrated software image provides powerful L2 and L3 features to fulfill different applications' requirements, capable of building 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 ensures rock-solid connectivity



DXS-3130-28P

Layer 3 Stackable Managed Switch

Features

High Availability and Flexibility

- Variety of high-speed interface combinations to meet different network requirements
- Two hot-swappable power modules for 1+1 power redundancy and load sharing
- 60W BT PoE with 1440 W PoE power budget
- Smart fan design
- 5-speed smart fan design automatically adjusts according to device operating temperature

Reliability

- Redundant power supply (RPS) support
- Ethernet Ring Protection Switching (ERPS)
- Embedded 6 kV 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-3130-28P Layer 3 Stackable Managed Switch is designed 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-3130-28P features 24 10G/multi-Gigabit 802.3bt 60W PoE++ ports and 4 10/25G SFP28 ports, offering a versatile and high-speed networking connection. The DXS-3130-28P is equipped with 24 PoE ports, supporting 802.3af, 802.3at, and 802.3bt 60W PoE++ standards. It offers a default power budget of 790 watts, which can be expanded to 1440 watts with dual power supplies. Additionally, 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-3130-28P targets enterprises and metro Ethernet applications, and customers who require a high level of network security and maximum uptime. The DXS-3130-28P suppports hot-swappable internal redundant power supplies and incorporate essential reliability 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-3130-28P provides dynamic 802.3ad Link Aggregation Port Trunking.

Comprehensive Security

The DXS-3130-28P 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-3130-28P PoE models have built-in internal fans which can automatically start working to 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-3130-28P 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-3130-28P implements a rich set of multi-layer QoS/CoS features to ensure that critical network services such as VoIP, video conferences, IPTV, and IP surveillance are always given high priority. Traffic Shaping features guarantee bandwidth for these services when the network is busy. L2 Multicast support enables the DXS-3130-28P to handle growing IPTV applications.

Host-based IGMP/MLD Snooping allows 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-3130-28P 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 transmission bandwidth, allowing switching capacity to be increased with demand.

6 kV Surge Protection

The DXS-3130-28P features built-in 6 kV 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 6 kV 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.

Power over Ethernet (PoE)

The DXS-3130-28P features Power over Ethernet, which allows PoE-powered devices to be powered by the switch through a standard Ethernet cable. It supports the IEEE 802.3af PoE, IEEE 802.3at PoE+ and IEEE 802.3bt PoE++ standards, providing up to 60 W of power per port. PoE effectively reduces deployment time for PoE devices such as IP cameras, VoIP phones, and access points and eliminates the cost for additional electrical cabling.

Perpetual PoE and Fast PoE are also available with the DXS-3130-28P. Perpetual PoE delivers uninterrupted power to connected powered devices (PD) even when the power sourcing equipment (PSE) switch is booting. Fast PoE enables the switch to supply power to connected endpoint devices in a relatively short time without waiting for the operating system to boot up.

The DXS-3130-28P features a 790 W PoE power budget which can be increased to 1440 W when outfitted with dual power supplies, allowing the switches to power even more devices. Additionally, an extended Link Layer Discovery Protocol (LLDP) automatically negotiates and manages the power feed to IEEE 802.3bt 60W powered devices for optimal power distribution.



Technical Specifications		
Interfaces	DXS-3130-28P	
Ports	• 24 x 100M/1G/2.5G/5G/10GBASE-T 60W PoE++ ports • 4 x 10/25G SFP28 ports	
Optional Redundant Power Supply	AC (DPS-PWR1200AC) hot-swappable redundant power supplies DC (DPS-PWR1200DC) hot-swappable redundant power supplies	
Console Port	10/100/1000BASE-T 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	506.92 Mpps	
Packet Buffer Memory	4 MB	
РоЕ		
PoE Standards	• IEEE 802.3af • IEEE 802.3at	• IEEE 802.3bt
PoE Power Budget	• 790 W	• 1440 W (dual power supplies)
Physical		
MTBF (Hours)	286,495.20 hours	
Acoustics	• Max: 50.01 dB (fan high speed)	• Min: 41.2 dB (fan low speed)
Heat Dissipation	3439.64 BTU/h	
Power Input	100 to 240 VAC, 50 to 60 Hz	
Max Power Consumption	 Max: AC CRPS at 100V/60Hz PoE On: w/ dual CRPS: 1782.37 W (AC CRPS x 2) w/ single CRPS: 1008.1 W (AC CRPS x 1) PoE Off: 95.9W) 	• Standby: 50.18 W
Dimensions (W xD x H)	440 x 470 x 44 mm (17.32 x 18.50 x 1.73 in)	
Weight	6.48 kg (14.29 lbs)	
Ventilation	2 x Smart fans	
Power Surge Protection	All Ethernet ports support IEC61000-4-5 6 kV surge protection	
Operation Temperature	0 to 50 °C (32 to 122 °F)	
Storage Temperature	-40 to 70 °C (-40 to 158 °F)	
Operating Humidity	10% to 90% RH	
Storage Humidity	5% to 90% RH	



### FCC Class A * FCC Class C			
- VCCC Class A - CB - C		• FCC Class A	• IC
Software Features - CS - cUL - Object Survivaries Starkability - Physical stacking - Up to 50 units per stack - Up to 20 Clays stacking bandwidth - Up to 32 units per virtual stacking - Up to 32 units per virtual stack. - MAC Address Table: 32K (32 768) entries - Row Control - NUL Blocking Prevention - Jumbo Frames up to 12 Klynes - NUL Blocking Prevention - Jumbo Frames up to 12 Klynes - NUL Stage Stacking Prevention - Jumbo Frames up to 12 Klynes - NUL Stage Stag	Emission (EMI)	• CE Class A	• RCM
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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 Max. ACL entries: Ingress (hardware entries): 3072 Egress (hardware entries): 1024 VLAN Access Map Numbers: 100	 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 Time-based ACL CPU Interface Filtering
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 Supports TLS 1.0/1.1/1.2 Supports IPv4/IPv6 access SSH Supports SSH v2 Supports IPv4/IPv6 access BPDU Attack Protection DoS Attack Prevention
PoE Features	Perpetual PoEFast PoETime-based PoE	PD Alive Auto PoE PD Discovery
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) Supports 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 Authentication Database Failover 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 hibernationTime-based PoE
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 OAMOptical Transceiver Digital Diagnostic Monitoring (DDM)



Management	Web-based GUI Support IPv4/IPv6 access Support SSL (HTTPS) Command Line Interface (CLI) Telnet Server for IPv4/IPv6 Telnet Client for IPv4/IPv6 TFTP Client for IPv4/IPv6 DNS Client for IPv4/IPv6 Secure FTP Server for IPv4/IPv6 ShMP Support v1/v2c/v3 Support for IPv4/IPv6 access SNMP Traps System Log for IPv4/IPv6 Syslog Server SFlow Multiple images/ Multiple Configurations RMON v1: Supports 1, 2, 3, 9 groups RMON v2: Supports ProbeConfig group LLDP/LLDP-MED BootP/DHCP Client	 DHCP Auto-Configuration DHCP/DHCP/6 Local Relay DHCP Relay Option 60/61/82/125 Flash File System PPPoE Circuit-ID Tag Insertion D-Link Discover Protocol (DDP) Debug command Support IPv4/v6 SNTP Server NTPv3/v4 Password recovery/ encryption DHCP server Support for IPv4/IPv6 address assignment Command Logging SMTP DHCPv6 Prefix Delegation (PD) Ping/ Traceroute for IPv4/IPv6 Microsoft® Network Load Balancing (NLB) PD Alive (PoE Models Only)
L3 Features	IPv4 ARP Entries 4096 256 Static ARP IPv6 ND Entries:1024 128 Static ND Entries IP Interface Supports 128 interfaces	 Gratuitous ARP Loopback Interface Proxy ARP Support local ARP proxy VRRP v2/v3 IP Helper
L3 Routing	Supports 1024 hardware routing entries shared by IPv4/IPv6 1 entry consumed by each IPv4 route 2 entries consumed by each IPv6 route Supports up to 16K IPv4 / 8K IPv6 hardware L3 forwarding entries 1 entry consumed by each IPv4 route 2 entries consumed by each IPv6 route IPv4/IPv6 Static Route Max. 512 IPv4 entries Max. 256 IPv6 entries Support Equal-Cost Multi-Path Route (ECMP) IPv4/IPv6 Default Route	 PBR (Policy-based Route) Null Route Route Preference Route Redistribution RIPv1/v2/ng OSPF OSPF v2/v3 OSPF passive interface Stub/NSSA area Support Equal-Cost Multi-Path Route (ECMP) Text/MD5
MIB	 RFC1065, RFC1066, RFC1155, RFC1156, RFC2578 MIB Structure 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 RFC2674, RFC4363 802.1p MIB Interface Group MIB RFC2618 RADIUS Authentication Client MIB RFC4022 MIB for TCP RFC4113 MIB for UDP RFC2389 MIB for Diffserv. 	 RFC2620 RADIUS Accounting Client MIB 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 IP Forwarding Table MIB PoE MIB

RFC Standard Compliance	 RFC 768 UDP RFC 791 IP 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 RFC1321, RFC2284, RFC2865, RFC2716, RFC1759, RFC3580, RFC3748 Extensible Authentication Protocol (EAP) RFC2571 SNMP Framework RFC 2068, 2616 HTTP RFC 2866 RADIUS Accounting RFC792 ICMPv4 	 RFC2463, RFC4443 ICMPv6 RFC4884 Extended ICMP to support Multi-Part Messages RFC1338, RFC1519 CIDR RFC2574 User-based Security Model for SNMPv3 RFC1981 Path MTU Discovery for IPv6 RFC2460 IPv6 RFC 2571, 2572, 2573, 2574, SNMP RFC 854 Telnet RFC 951, 1542 BootP RFC2461, RFC4861 Neighbor Discovery for IPv6 RFC2462, RFC4862 IPv6 Stateless Address Auto-configuration (SLAAC) RFC2464 IPv6 over Ethernet and definition RFC1886 DNS extension support for IPv6
Order Information		
DXS-3130-28P	24 Ports 10G/MultiGig PoE(60W) + 4 Ports 25G SFP28 N	Managed Switches, 790W
Optional Accessories		
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 Supp	lies	
DPS-PWR1200AC	1200 W AC Hot-Swappable Internal Redundant Power Supply	
DPS-PWR1200DC	1200 W DC Hot-Swappable Internal Redundant Power Supply	
Optional SFP+ Transceivers		
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)	
DEM-433XT	10GBASE-ER Single-Mode, 40 km (w/o DDM)	
DEM-434XT	10GBASE-ZR Single-Mode, 80 km (w/o DDM)	
DEM-435XT	10GBASE-LRM Multi-Mode, 200M (w/o DDM)	
DEM-436XT-BXD	10GBASE-LR Single-Mode, 20 km (TX-1330/RX-1270 nm) (w/o DDM)	
DEM-436XT-BXU	10GBASE-LR Single-Mode, 20 km (TX-1270/RX-1310 nm) (w/o DDM)	
Optional 25 Gigabit Ethernet SFP28 Transceivers		
DEM-S2801SR	25G SFP28 Multi-Mode, 100 m Transceiver	
DEM-S2810LR	25G SFP28 Single-Mode 10 km Transceiver	

