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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

Multi-Gigabit with Embedded 25G Ports

Multi-Gigabit ports with 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

DMS-3130 Series

Layer 3 Stackable Multi-Gigabit Managed Switches

Features

High Availability and Flexibility

- Multi-Gigabit 2.5G/5G/10G/25G support
- 2.5GBASE-T PoE+ and 5GBASE-T PoE++ support
- Four 25G SFP28 uplink ports

Reliability

- Redundant power supply (RPS) support
- Two hot-swappable power modules for 1+1 power redundancy and load sharing for DMS-3130-30PS
- DMS-3130-30TS can also be powered through the RJ45 PD MGMT port
- Ethernet Ring Protection Switching (ERPS)
- Embedded 6 kV surge protection on all 2.5G/5G Ethernet access ports
- Loopback Detection (LBD)

High Bandwidth Stacking

- Physical stack of up to 9 units
- Supports long-distance stacking over fibre
- 200 Gbps per device physical stacking bandwidth

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

The DMS-3130 Series is a range of Layer 3 Stackable Multi-Gigabit Managed Switches designed to connect end-users in a secure enterprise or metro Ethernet access network. These switches support both multicasting and enhanced security, making them an ideal multi-Gigabit access layer solution. Each model boasts two 10GBASE-T ports and four 10G/25G SFP28 ports to provide versatility and speed.

Future-Proof Power over Ethernet Support

The DMS-3130-30PS provides sixteen 2.5G ports supporting 802.3af/at PoE and eight 5G ports supporting 60W 802.3bt PoE standards with a power budget of 740 watts expandable to 960 watts with dual power supplies. Multi-Gigabit PoE with up to 60W of power per port is ideal for Wi-Fi 6/6E access points, smart lighting or industrial automation equipment. Perpetual PoE and Fast PoE support delivers faster and uninterrupted power to connected devices even when the switch is booting.

D-LinkAssist
Next Business Day Service

All D-Link products with 5-year or Limited Lifetime warranty come with complimentary Next Business Day Service. D-Link will send out a replacement product to you on the next business day after acceptance of a product failure. On receipt of the replacement product, you simply arrange the return of the defective product to us. Any products with a 2-year/3-year warranty can also benefit from the Next Business Day advance replacement service when the optional 3-year warranty extension has been purchased.

Find out more at **eu.dlink.com/services**

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DMS-3130 Series
Layer 3 Stackable Multi-Gigabit Managed Switches

Enhanced Network Reliability

The DMS-3130 Series is designed for customers requiring maximum network uptime. Both models in the series support redundant power supplies and essential reliability features to enhance network resilience. Ethernet Ring Protection Switching (ERPS) minimises the recovery time to 50 ms. For load sharing and redundancy backup in a switch cascading/server attachment configuration, the DMS-3130 Series provides dynamic 802.3ad Link Aggregation Port Trunking.

High Availability and Flexibility

The DMS-3130 Series 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/fibres to make up to 234 Multi-Gigabit ports available, allowing switching capacity to be increased with demand.

Comprehensive Security

The DMS-3130 Series 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. IMPB with DHCP Snooping allows administrators to automatically bind a source IP address with an associated MAC and port to enhance user access control without a time-consuming setup.

Easy Access Control Policies

The DMS-3130 Series 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 DMS-3130 Series has 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. L2 Multicast support enables the DMS-3130 Series 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 provide better security to the backbone network.

6 kV Surge Protection

The DMS-3130 Series features built-in 6 kV surge protection on all PoE and non-PoE 2.5G/5G Ethernet access ports, protecting the switches against sudden electrical surges caused by lightning strikes or unstable electrical currents. It effectively lowers maintenance costs by minimising the need for expensive equipment repairs or replacement.

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DMS-3130 Series
Layer 3 Stackable Multi-Gigabit Managed Switches

Technical Specifications		
Interfaces	**DMS-3130-30TS**	**DMS-3130-30PS**
Ports	• 24 x 100/1000/2.5GBASE-T ports • 2 x 100/1000/2.5G/5G/10GBASE-T ports • 4 x 10G/25G SFP28 ports	• 16 x 100/1000/2.5GBASE-T PoE+ ports • 8 x 100/1000/2.5G/5GBASE-T 60W PoE++ ports • 2 x 100/1000/2.5G/5G/10GASE-T ports • 4 x 10G/25G SFP28 ports
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	
Stacking Cost[1]	• 1	
USB Ports	• 1 x USB 2.0 Type A port	
Performance		
Switching Capacity	• 360 Gbps	• 400 Gbps
64-Byte Packet Forwarding Rate	• 268 Mpps	• 298 Mpps
Packet Buffer Memory	• 4 MB	
PoE		
PoE Standards	-	• IEEE 802.3af PoE • IEEE 802.3at PoE+ • IEEE 802.3bt PoE++
PoE Power Budget	-	• 740 W • 960 W (dual PSU)
Physical		
MTBF (Hours)	• 270,340.81 hours	• 277,222.63 hours
Acoustics	• Max: 52.5 dB • Min: 41.0 dB	• Max: 72.8 dB • Min: 39.9 dB
Heat Dissipation	• 253.38 BTU/h	• 4137.73 BTU/h
Power Input	• 100 to 240 VAC, 50 to 60 Hz • 802.3bt Type 4 PD MGMT port	• 100 to 240 VAC, 50 to 60 Hz
Hot Swappable Power Supply	• N/A	• Up to 2 (1 included)
Max Power Consumption	• Max.: 74.26 W • Standby: 43.84 W	• Max.: 1211.5 W (PoE On) / 88.9 W (PoE Off) • Standby: 58.3 W
Dimensions (W xD x H)	• 440 x 250 x 44 mm	• 440 x 470 x 44 mm
Weight	• 3.63 kg	• 6.54 kg
Ventilation	• 2 x Smart fan	• 2 x Smart fan
Operation Temperature	• 0 to 50 ˚C	
Storage Temperature	• -40 to 70 ˚C	
Operating Humidity	• 10% to 90% RH	
Storage Humidity	• 5% to 90% RH	
Emission (EMI)	• FCC Class A, CE Class A, VCCI Class A, IC, RCM, BSMI	
Safety	• CB, cUL, BSMI	

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DMS-3130 Series
Layer 3 Stackable Multi-Gigabit Managed Switches

Software Features		

Stackability	• Physical stacking
	  • Up to 9 units per stack
	  • Up to 200 Gbps stacking bandwidth
	  • Ring/chain topology support
		• Virtual stacking
		  • D-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 9 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
		  • Supports One-to-One, Many-to-One
		  • Supports Mirroring for both Tx/Rx
		  • Supports 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
	  • Supports 1024 IGMP groups
	  • IGMP Snooping Fast Leave
	  • Supports 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[2] Snooping
		  • Support 1024 MLD Groups
		  • Host-based MLD Snooping Fast Leave
		  • Supports 64 static MLD groups
		  • MLD Snooping Querier
		  • Per VLAN MLD Snooping
		  • MLD Proxy Reporting

L3 Multicasting	• IGMP v1/v2/v3	• PIM-SM for IPv4[1]

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
	• 802.1Q
	• Auto Surveillance VLAN[2]
	• Port-based VLAN
		• 802.1v Protocol-based VLAN
		• Voice VLAN[2]
		• MAC-based VLAN
		• VLAN translation
		• Multicast VLAN (ISM VLAN for IPv4/IPv6)
		• Asymmetric VLAN
		• Private VLAN
		• VLAN Trunking
		• Super VLAN

QoS (Quality of Service)	• 802.1p
	• 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

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Layer 3 Stackable Multi-Gigabit Managed Switches

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
		  • 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

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
	• RAIDUS and TACACS+ Authentication
	• Authentication Database Failover
	• Compound Authentication
		• 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
		• MAC-based Access Control (MAC)
		  • Supports port/host-based access control
		  • Identity-driven Policy Assignment
		  • Dynamic VLAN Assignment
		  • Ingress/Egress Bandwidth Control
		  • ACL Assignment

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)

Management	• Web-based GUI
	  • Support IPv4/IPv6 acces
	  • 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
	• SNMP
	  • 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/DHCPv6 Local Relay
		• DHCP Relay Option 60/61/62/125
		• 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)

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L3 Features	• IPv4 ARP Entries 2048
	  • 512 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 4096 hardware L3 forwarding entries shared by IPv4/IPv6
	  • 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

Green Features	• Energy-Efficient Ethernet (EEE) • Power saving by link status • Power saving by LED shut-off	• Power saving by port shut-of • Power saving by system hibernation • Time-based PoE
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, RFC2576 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 Ether-like 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) • RFC4265 IPv6 MIB • RFC4266 ICMPv6 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
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 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

Optional Accessories	
DEM-CB100S	1 m 10G SFP+ Direct Attach Cable (DAC)
DEM-CB300S	3 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 for DMS-3130-30TS
DPS-PWR740AC	740W AC Hot-Swappable Internal Redundant Power Supply for DMS-3130-30PS
Optional SFP+ Transceivers	
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 Transceivers	
DEM-S2801SR	25G SFP28 Multi-Mode, 100m Transceiver
DEM-S2810LR	25G SFP28 Single-Mode 10km Transceiver

[1] This feature does not support physical stacking mode. Only standalone mode is supported.
[2] MLD V2, Auto Surveillance VLAN, and Voice VLAN will be supported in the future.

For more information: eu.dlink.com

D-Link (Deutschland) GmbH, Schwalbacher Strasse 74, 65760 Eschborn, Germany
D-Link (Europe) Ltd, Artemis Building, Odyssey Business Park, West End Road, South Ruislip HA4 6QE, United Kingdom

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