

## Highlights

### High Availability

Redundancy features, such as hot-swappable power supplies, redundant fan trays, and switch stacking maximize the availability of your network

### Lossless Ethernet

Data Center functionality available through Data Center Bridging (DCB) enhances network performance and reliability

### Easy Management

Industry-standard management tools allow the switch to be easily administered, integrating seamlessly with existing devices



## DXS-3400 Series

# Lite Layer 3 Stackable 10 GbE Managed Switches

## Features

### High Availability and Flexibility

- Two AC/DC hot-swappable power modules for 1+1 redundancy and load sharing
- Three hot-swappable fan trays provide N+1 cooling redundancy
- Physical stacking via four 10G ports, can stack up to 4 devices
- Ethernet Ring Protection Switching (ERPS)
- Switch Resource Management (SRM) for flexible management of system resources

### Lossless Ethernet via Data Center Bridging (DCB)

- IEEE 802.1Qbb Priority-based Flow Control (PFC)
- IEEE 802.1Qaz Enhanced Transmission Selection (ETS)
- IEEE 802.1Qau Congestion Notification (CN)

### Traffic Monitoring & Bandwidth Control

- Port mirroring/Bandwidth Control
- Broadcast/Multicast/Unicast storm control
- Single Rate Three Color Marker (srTCM)
- Two Rate Three Color Marker (trTCM)

### Easy Management

- RJ-45/Mini-USB console port
- Management and alarm ports
- USB port for firmware and configuration files
- Easy-to-use Web GUI
- Industry-standard CLI

D-Link's DXS-3400 Series Lite Layer 3 Stackable 10 GbE Managed Switches are new, compact, high-performance switches that feature wire-speed 10-Gigabit Ethernet switching, routing, and ultra-low latency. The 1U height and high port density make the DXS-3400 Series suitable for enterprise and campus environments where space is at a premium. The DXS-3400 Series switches also include 20 10GBASE-T or 10G SFP+ ports and 4 10GBASE-T/SFP+ combo ports, making them suitable for datacenter, core, and distribution applications.

## High Availability and Flexibility

The DXS-3400 Series switches feature a modular fan and power supply design for a high availability architecture. The hot-swappable design means that fans and power supplies can be replaced without affecting switch operation. Physical and virtual switch stacking allow the switches to be managed from a single IP address and provide redundancy for connected devices. The Switch Resource Management (SRM) feature allows the hardware table size to be changed, so that switch functions can be optimized based on the use of the switch. The DXS-3400 Series switches come with 3 modes: IP Mode, LAN Mode, and L2 VPN Mode, which modify the size of the Layer 2 and 3 tables for optimum efficiency.

## Standard and Enhanced Images

The DXS-3400 Series is designed for use with two different software images: the Standard Image (SI) and the Enhanced Image (EI). The Standard Image provides core SMB and SME functionality, such as L2 switching, entry-level routing, L2 multicast, advanced Quality of Service (QoS), Operations, Administration, and Maintenance (OAM), and robust security features. The Enhanced Image supports all Standard Image features, in addition to advanced L3 routing for enterprise integration, including OSPF versions 1 and 2, IPv6 Tunneling, and multicast features such as IGMP, MLD, DVMRPv3, and Multicast Source Discovery Protocol (MSDP). With multiple software images, only the required features need to be purchased, providing a flexible approach to software licensing.

## Lite Layer 3 Stackable 10 GbE Managed Switches

### Lossless Ethernet

Data Center Bridging (DCB) is an essential set of enhancements to Ethernet for networking in data center environments. The DXS-3400 Series switches support several core components of Data Center Bridging (DCB) such as IEEE 802.1Qbb, IEEE 802.1Qaz, and IEEE 802.1Qau. IEEE 802.1Qbb (Priority-based Flow Control) provides flow control on specific priority to ensure there is no data-loss during network congestion. IEEE 802.1Qaz (Enhanced Transmission Selection) manages the allocation of bandwidth amongst different traffic classes. IEEE 802.1Qau (Congestion Notification) provides congestion management for data flows within network domains to avoid congestion.

### Energy Efficient

The DXS-3400 Series switches feature front-to-back airflow which facilitates the building of energy-efficient data centers. The front-to-back airflow optimizes air circulation inside the rack, allowing hot and cold isles in data centers, increasing energy efficiency in comparison to a mix of front-to-back and side-to-side airflow. The switches also feature in-built smart fans; internal heat sensors monitor and detect temperature changes, and react accordingly by utilizing different fan speeds for different temperatures. At lower temperatures, the fans will run more slowly, reducing the switch's power consumption and noise.

Technical Specifications		
General	DXS-3400-24TC	DXS-3400-24SC
Interfaces	<ul style="list-style-type: none"> <li>• 20 10GBASE-T ports</li> <li>• 4 10GBASE-T/SFP+ combo ports</li> </ul>	<ul style="list-style-type: none"> <li>• 20 10G SFP+ ports</li> <li>• 4 10GBASE-T/SFP+ combo ports</li> </ul>
Console Port	<ul style="list-style-type: none"> <li>• RJ-45 and Mini USB console ports for out-of-band CLI management</li> </ul>	
Management Port	<ul style="list-style-type: none"> <li>• 10/100/1000BASE-T RJ-45 Ethernet for out-of-band IP management</li> </ul>	
USB Port	<ul style="list-style-type: none"> <li>• 1 port</li> </ul>	
Performance		
Switching Capacity	<ul style="list-style-type: none"> <li>• 480 Gbps</li> </ul>	
Max. Forwarding Rate	<ul style="list-style-type: none"> <li>• 357.12 Mpps</li> </ul>	
Packet Buffer Memory	<ul style="list-style-type: none"> <li>• 4 MB</li> </ul>	
MAC Address Table	<ul style="list-style-type: none"> <li>• Up to 48K entries</li> </ul>	
Physical		
Power Input	<ul style="list-style-type: none"> <li>• 100 to 240 V, 50/60 Hz, 2 A</li> </ul>	
Maximum Power Consumption	<ul style="list-style-type: none"> <li>• 159.8 W</li> </ul>	<ul style="list-style-type: none"> <li>• 118.6 W</li> </ul>
Standby Power Consumption	<ul style="list-style-type: none"> <li>• 85.1 W</li> </ul>	<ul style="list-style-type: none"> <li>• 64.8 W</li> </ul>
Heat Dissipation (Max.)	<ul style="list-style-type: none"> <li>• 557.94 BTU/hr</li> </ul>	<ul style="list-style-type: none"> <li>• 388.39 BTU/hr</li> </ul>
Dimensions (W x D x H)	<ul style="list-style-type: none"> <li>• 441 x 44 x 380 mm (17.32 x 1.73 x 14.96 inches)</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>• 7.6 kg (16.76 lbs) (2 PSUs, 3 fan modules)</li> <li>• 6.65 kg (14.66 lbs) (1 PSU, 3 fan modules)</li> <li>• 5.25 kg (11.57 lbs) (no PSU or fan modules)</li> </ul>	<ul style="list-style-type: none"> <li>• 7.45 kg (16.42 lbs) (2 PSUs, 3 fan modules)</li> <li>• 6.5 kg (14.33 lbs) (1 PSU, 3 fan modules)</li> <li>• 5.1 kg (11.24 lbs) (no PSU or fan modules)</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• -5 to 50 °C (32 to 113 °F)</li> </ul>	
Storage Temperature	<ul style="list-style-type: none"> <li>• -40 to 70 °C (-40 to 158 °F)</li> </ul>	
Operating Humidity	<ul style="list-style-type: none"> <li>• 0% to 95% RH</li> </ul>	
Storage Humidity	<ul style="list-style-type: none"> <li>• 0% to 95% RH</li> </ul>	
Certifications		
Safety	<ul style="list-style-type: none"> <li>• cUL, CB, CE, CCC, BSMI</li> </ul>	
EMI/EMC	<ul style="list-style-type: none"> <li>• CE, FCC, C-Tick, VCCI, BSMI, CCC</li> </ul>	

Standard Image Software Features		
Stackability	<ul style="list-style-type: none"> <li>Physical Stacking               <ul style="list-style-type: none"> <li>Up to 80G stacking bandwidth</li> <li>Up to 4 switches in a stack</li> <li>Ring/chain topology support</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Virtual stacking/clustering of up to 32 units               <ul style="list-style-type: none"> <li>Supports D-Link Single IP Management</li> </ul> </li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>MAC Address Table               <ul style="list-style-type: none"> <li>Up to 48K entries</li> </ul> </li> <li>Flow Control               <ul style="list-style-type: none"> <li>802.3x Flow Control when using full-duplex</li> <li>Back Pressure when using half-duplex</li> <li>HOL Blocking Prevention</li> </ul> </li> <li>Spanning Tree Protocol               <ul style="list-style-type: none"> <li>802.1D STP</li> <li>802.1w RSTP</li> <li>802.1s MSTP</li> <li>Root Guard</li> <li>Loop Guard</li> </ul> </li> <li>Jumbo Frame               <ul style="list-style-type: none"> <li>Up to 12 Kb</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>802.1AX Link Aggregation               <ul style="list-style-type: none"> <li>Max. 32 groups per device, 8 ports per group</li> </ul> </li> <li>ERPS (Ethernet Ring Protection Switching)</li> <li>Port mirroring               <ul style="list-style-type: none"> <li>Supports one-to-one, many-to-one</li> <li>Supports mirroring for Tx/Rx/both</li> <li>Supports 4 mirroring groups</li> </ul> </li> <li>Flow mirroring               <ul style="list-style-type: none"> <li>Supports mirroring for Rx</li> </ul> </li> <li>VLAN mirroring</li> <li>L2 protocol tunneling</li> <li>Loopback Detection (LBD)</li> <li>iSCSI awareness</li> <li>Multi-Chassis Link Aggregation (MLAG)<sup>1</sup></li> </ul>
L2 Multicast Features	<ul style="list-style-type: none"> <li>MLD Snooping               <ul style="list-style-type: none"> <li>MLD v1/v2 Snooping</li> <li>Supports 256 groups</li> <li>Host-based MLD Snooping Fast Leave</li> <li>Supports 64 static MLD groups</li> <li>MLD Snooping Querier</li> <li>Per-VLAN MLD Snooping</li> <li>MLD Proxy Reporting</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>IGMP Snooping               <ul style="list-style-type: none"> <li>IGMP v1/v2/v3 Snooping</li> <li>Supports 512 IGMP groups</li> <li>Supports 64 static IGMP groups</li> <li>Per VLAN IGMP Snooping</li> <li>IGMP Snooping Querier</li> <li>Host-based IGMP Snooping Fast Leave</li> </ul> </li> <li>PIM Snooping</li> </ul>
L3 Features	<ul style="list-style-type: none"> <li>ARP               <ul style="list-style-type: none"> <li>512 static ARP</li> <li>Supports Gratuitous ARP</li> <li>ARP Proxy</li> </ul> </li> <li>IP Interface               <ul style="list-style-type: none"> <li>Supports 256 interfaces</li> </ul> </li> <li>Loopback interface</li> <li>IPv6 Neighbor Discovery (ND)</li> </ul>	<ul style="list-style-type: none"> <li>UDP helper</li> <li>IPv6 tunneling               <ul style="list-style-type: none"> <li>Static</li> <li>ISATAP</li> <li>GRE</li> <li>6to4</li> </ul> </li> <li>IGMP Proxy Reporting</li> <li>VRRP v2/v3</li> </ul>
L3 Routing	<ul style="list-style-type: none"> <li>Static routing               <ul style="list-style-type: none"> <li>Max. 256 IPv4 entries</li> <li>Max. 128 IPv6 entries</li> <li>Supports Route Redistribution</li> <li>Supports secondary route</li> </ul> </li> <li>Supports 4096 hardware routing entries shared by IPv4/IPv6               <ul style="list-style-type: none"> <li>Max. 4096 IPv4 entries</li> <li>Max. 1024 IPv6 entries</li> </ul> </li> <li>Supports 32K hardware L3 forwarding entries shared by IPv4/IPv6               <ul style="list-style-type: none"> <li>Max. 32K IPv4 entries</li> <li>Max. 16K IPv6 entries</li> </ul> </li> <li>Default routing</li> <li>Policy-based Route (PBR)</li> <li>Null route</li> </ul>	<ul style="list-style-type: none"> <li>Bidirectional Forwarding Detection (BFD)               <ul style="list-style-type: none"> <li>IPv4/IPv6 static route</li> </ul> </li> <li>RIP               <ul style="list-style-type: none"> <li>VRRP</li> </ul> </li> <li>RIP               <ul style="list-style-type: none"> <li>RIP v1/v2</li> <li>RIPng</li> </ul> </li> <li>Graceful Restart (GR) Helper for RIP</li> <li>Route Redistribution               <ul style="list-style-type: none"> <li>Default route</li> <li>Static route</li> <li>RIP</li> <li>RIPng</li> <li>Null route</li> </ul> </li> </ul>
VLAN	<ul style="list-style-type: none"> <li>802.1Q</li> <li>802.1v</li> <li>Double VLAN (Q-in-Q)               <ul style="list-style-type: none"> <li>Port-based Q-in-Q</li> </ul> </li> <li>Selective Q-in-Q</li> <li>Port-based VLAN</li> <li>MAC-based VLAN</li> <li>Subnet-based VLAN</li> <li>Private VLAN</li> </ul>	<ul style="list-style-type: none"> <li>VLAN group               <ul style="list-style-type: none"> <li>Max. 4K static VLAN groups</li> <li>Max. 4094 VLANs</li> </ul> </li> <li>ISM VLAN (multicast VLAN)</li> <li>Voice VLAN</li> <li>Auto Surveillance VLAN</li> <li>VLAN trunking</li> <li>GVRP               <ul style="list-style-type: none"> <li>Up to 4094 dynamic VLANs</li> </ul> </li> </ul>

**Lite Layer 3 Stackable 10 GbE Managed Switches**

AAA	<ul style="list-style-type: none"> <li>• 802.1X authentication <ul style="list-style-type: none"> <li>• Supports port-based access control</li> <li>• Supports host-based access control</li> </ul> </li> <li>• Identity-driven policy assignment <ul style="list-style-type: none"> <li>• Dynamic VLAN assignment</li> <li>• QoS assignment</li> <li>• ACL assignment</li> </ul> </li> <li>• Web-based Access Control (WAC) <ul style="list-style-type: none"> <li>• Identity-driven policy assignment <ul style="list-style-type: none"> <li>• Dynamic VLAN assignment</li> <li>• QoS assignment</li> <li>• ACL assignment</li> </ul> </li> </ul> </li> <li>• Supports port-based access control</li> <li>• Supports host-based access control</li> </ul>	<ul style="list-style-type: none"> <li>• MAC-based Access Control (MAC) <ul style="list-style-type: none"> <li>• Identity-driven policy assignment <ul style="list-style-type: none"> <li>• Dynamic VLAN assignment</li> <li>• QoS assignment</li> <li>• ACL assignment</li> </ul> </li> </ul> </li> <li>• Supports port-based access control</li> <li>• Supports host-based access control</li> <li>• Compound Authentication</li> <li>• Microsoft NAP <ul style="list-style-type: none"> <li>• Support 802.1X NAP</li> <li>• Support DHCP NAP</li> </ul> </li> <li>• RAIDUS and TACACS+ authentication</li> <li>• Authentication Database Failover</li> <li>• Guest VLAN</li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>• 802.1p Quality of Service</li> <li>• 8 queues per port</li> <li>• QoS based on <ul style="list-style-type: none"> <li>• 802.1p Priority Queues</li> <li>• DSCP</li> <li>• IP address</li> <li>• MAC address</li> <li>• VLAN</li> <li>• IPv6 traffic class</li> <li>• IPv6 Flow Label</li> <li>• TCP/UDP port</li> <li>• Switch port</li> <li>• EtherType</li> <li>• ToS/IP Preference</li> <li>• Protocol type</li> </ul> </li> <li>• Congestion Control <ul style="list-style-type: none"> <li>• WRED</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Queue handling <ul style="list-style-type: none"> <li>• Strict</li> <li>• Weighted Round Robin (WRR)</li> <li>• Strict + WRR</li> <li>• Deficit Round Robin (DRR)</li> <li>• Weighted Deficit Round Robin (WDRR)</li> </ul> </li> <li>• Bandwidth control <ul style="list-style-type: none"> <li>• Port-based (ingress/egress, min. granularity 64 Kb/s)</li> <li>• Flow-based (ingress/egress, min. granularity 64 Kb/s)</li> <li>• Per queue bandwidth control (min. granularity 64 Kb/s)</li> </ul> </li> <li>• Support for following actions: <ul style="list-style-type: none"> <li>• Remark 802.1p priority tag</li> <li>• Remark ToS/DSCP tag</li> <li>• Committed Information Rate (CIR)</li> </ul> </li> <li>• Three Color Marker <ul style="list-style-type: none"> <li>• trTCM</li> <li>• srTCM</li> </ul> </li> </ul>
Data Center Bridging (DCB)	<ul style="list-style-type: none"> <li>• 802.1Qbb Priority-based Flow Control (PFC)</li> <li>• 802.1Qaz Enhanced Transmission Selection (ETS)</li> </ul>	<ul style="list-style-type: none"> <li>• 802.1Qau Congestion Notification (CN)</li> </ul>
Access Control List (ACL)	<ul style="list-style-type: none"> <li>• ACL based on: <ul style="list-style-type: none"> <li>• 802.1p priority</li> <li>• VLAN</li> <li>• MAC address</li> <li>• EtherType</li> <li>• IP address</li> <li>• DSCP</li> <li>• Protocol type</li> <li>• TCP/UDP port number</li> <li>• IPv6 traffic class</li> <li>• IPv6 Flow Label</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Max. ACL entries: <ul style="list-style-type: none"> <li>• Ingress <ul style="list-style-type: none"> <li>• IPv4: 1792</li> <li>• IPv6: 448</li> </ul> </li> <li>• Egress <ul style="list-style-type: none"> <li>• IPv4: 512</li> <li>• IPv6: 256</li> </ul> </li> <li>• 3K VLAN access map</li> </ul> </li> <li>• Time-based ACL</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Port Security <ul style="list-style-type: none"> <li>• Supports up to 12K MAC addresses per port/system</li> </ul> </li> <li>• Broadcast/multicast/unicast storm control</li> <li>• D-Link Safeguard Engine</li> <li>• DHCP server screening</li> <li>• IP-MAC-Port Binding</li> <li>• Dynamic ARP Inspection</li> <li>• IP Source Guard</li> <li>• DHCP Snooping</li> <li>• IPv6 Snooping</li> <li>• DHCPv6 Guard</li> <li>• IPv6 Route Advertisement (RA) Guard</li> <li>• IPv6 ND Inspection</li> </ul>	<ul style="list-style-type: none"> <li>• ARP Spoofing Prevention <ul style="list-style-type: none"> <li>• Max. 64 entries</li> </ul> </li> <li>• Duplicate Address Detection (DAD)</li> <li>• L3 Control Packet Filtering</li> <li>• Traffic Segmentation</li> <li>• SSL <ul style="list-style-type: none"> <li>• Supports v1/v2/v3</li> <li>• Supports IPv4/IPv6 access</li> </ul> </li> <li>• SSH <ul style="list-style-type: none"> <li>• Supports SSH v2</li> <li>• Supports IPv4/IPv6 access</li> </ul> </li> <li>• BPDU attack protection</li> <li>• DoS attack prevention</li> </ul>
Operations, Administration, and Maintenance (OAM)	<ul style="list-style-type: none"> <li>• Cable diagnostics</li> <li>• 802.3ah Ethernet link OAM</li> <li>• D-Link Unidirectional Link Detection (DULD)</li> <li>• Dying Gasp</li> </ul>	<ul style="list-style-type: none"> <li>• 802.1ag Connectivity Fault Management (CFM)</li> <li>• Y.1731 OAM</li> <li>• Optical Transceiver Digital Diagnostic Monitoring (DDM)</li> </ul>

<p>Management</p>	<ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• CLI</li> <li>• Telnet server</li> <li>• Telnet client</li> <li>• TFTP client</li> <li>• FTP client</li> <li>• Secure FTP (SFTP) server</li> <li>• Traffic monitoring</li> <li>• SNMP               <ul style="list-style-type: none"> <li>• Supports v1/v2c/v3</li> </ul> </li> <li>• SNMP Trap</li> <li>• System log</li> <li>• DHCP client</li> <li>• DHCP server</li> <li>• DHCP Relay options 60, 61, 82</li> <li>• Multiple images</li> <li>• Multiple configurations</li> <li>• Flash file system</li> <li>• DNS client</li> </ul>	<ul style="list-style-type: none"> <li>• CPU monitoring</li> <li>• MTU setting</li> <li>• ICMP tools               <ul style="list-style-type: none"> <li>• Ping</li> <li>• Traceroute</li> </ul> </li> <li>• LLDP &amp; LLDP-MED</li> <li>• DNS Relay</li> <li>• SMTP</li> <li>• DHCP Auto Configuration</li> <li>• NTP</li> <li>• RCP (Remote Copy Protocol)</li> <li>• RMON v1/v2</li> <li>• Trusted host</li> <li>• Password encryption</li> <li>• Debug command</li> <li>• sFlow</li> <li>• Switch Resource Management (SRM)</li> <li>• Microsoft Network Load Balancing (NLB)</li> </ul>
<p>Enhanced Image Software Features</p>		
<p>L3 Features</p>	<ul style="list-style-type: none"> <li>• IPv6 Tunneling               <ul style="list-style-type: none"> <li>• Static</li> <li>• ISATAP</li> <li>• GRE</li> <li>• 6to4</li> </ul> </li> </ul>	
<p>L3 Routing</p>	<ul style="list-style-type: none"> <li>• OSPF               <ul style="list-style-type: none"> <li>• OSPF v2/v3</li> <li>• OSPF Passive Interface</li> <li>• Stub/NSSA Area</li> </ul> </li> <li>• Graceful Restart (GR) Helper for OSPF</li> <li>• Route Preference               <ul style="list-style-type: none"> <li>• OSPF v2/v3</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Route Redistribution               <ul style="list-style-type: none"> <li>• OSPF v2/v3</li> </ul> </li> <li>• Bidirectional Forwarding Detection (BFD)               <ul style="list-style-type: none"> <li>• OSPF</li> </ul> </li> </ul>
<p>L3 Multicast</p>	<ul style="list-style-type: none"> <li>• IGMP v1/v2/v3</li> <li>• MLD v1/v2</li> <li>• IGMP/MLD Proxy</li> </ul>	<ul style="list-style-type: none"> <li>• DVMRP v3</li> <li>• PIM-DM/SM/SM v6/SSM/SDM</li> <li>• Multicast Source Discovery Protocol (MSDP)</li> </ul>

Standards

MIB & RFC Standards

- MIB Structure: RFC1065, RFC1066, RFC1155, RFC1156, RFC2578
- Concise MIB Definitions: RFC1212
- MIBII: RFC1213
- MIB Traps Convention: RFC1215
- Bridge MIB: RFC1493, RFC4188
- SNMP MIB: RFC1157, RFC2571, RFC2572, RFC2573, RFC2574, RFC2575, RFC2576
- SNMPv2 MIB: RFC1442, RFC1901, RFC1902, RFC1903, RFC1904, RFC1905, RFC1906, RFC1907, RFC1908, RFC2578, RFC3418, RFC3636
- RMON MIB: RFC271, RFC1757, RFC2819
- RMONv2 MIB: RFC2021
- Ether-like MIB: RFC1398, RFC1643, RFC1650, RFC2358, RFC2665, RFC3635
- 802.3 MAU MIB: RFC2668
- 802.1p MIB: RFC2674, RFC4363
- Interface Group MIB: RFC2863
- RADIUS Authentication Client MIB: RFC2618
- MIB for TCP: RFC4022
- MIB for UDP: RFC4113
- MIB for Diffserv.: RFC3298
- RADIUS Accounting Client MIB: RFC2620
- Ping & TRACEROUTE MIB: RFC2925
- Running configuration writes and backup (D-Link MIB)
- TFTP uploads and downloads (D-Link MIB)
- Trap MIB (D-Link MIB)
- IPv6 MIB: RFC2465
- ICMPv6 MIB: RFC2466
- Entity MIB: RFC2737
- VRRP MIB: RFC2787
- RIPv2 MIB: RFC1724
- OSPF MIB: RFC1850
- IPv4 Multicast Routing MIB: RFC5132, RFC2932
- PIM MIB for IPv4: RFC2934
- IP Forwarding Table MIB: RFC4292
- IPv6 SNMP Mgmt Interface MIB: RFC4293
- DDM MIB (D-Link MIB)
- Private MIB (D-Link MIB)
- DIFFSERV MIB (D-Link MIB)
- MIB for D-Link Zone Defense (D-Link MIB)
- IP: RFC791
- UDP: RFC768
- TCP: RFC793
- ICMPv4: RFC792
- ICMPv6: RFC2463, RFC4443
- Extended ICMP to Support Multi-Part Messages: RFC4884
- ARP: RFC826
- CIDR: RFC1338, RFC1519
- Definition of the DS Field in the IPv4 and IPv6 Headers: RFC2474, RFC3168, RFC3260
- Extensible Authentication Protocol (EAP): RFC1321, RFC2284, RFC2865, RFC2716, RFC1759, RFC3580, RFC3748
- SNMP Framework: RFC2571
- SNMP Message Processing and Dispatching: RFC2572
- SNMP Applications: RFC2573
- User-based Security Model for SNMPv3: RFC2574
- Expedited Forwarding PHB (Per-Hop Behavior): RFC3246
- Supplemental Information for the New Definition of the EF PHB (Expedited Forwarding Per-Hop Behavior): RFC3247
- DNS extension support for IPv6: RFC1886
- Path MTU Discovery for IPv6: RFC1981
- IPv6: RFC2460
- Neighbor Discovery for IPv6: RFC2461, RFC4861
- IPv6 Stateless Address Auto-configuration: RFC2462, RFC4862
- IPv6 over Ethernet and definition: RFC2464
- Dual Stack Hosts using the "Bump-In-the-Stack" Technology: RFC2767
- IPv6 Addressing Architecture: RFC3513, RFC4291
- IPv4/IPv6 dual stack function: RFC2893, RFC4213
- Default Address Selection for Internet Protocol version 6: RFC3484
- IP-IP tunnel: IP Encapsulation within IP: RFC2003
- IP-IP tunnel: Allow MTU = 1500 or 1520: RFC1191
- L2 distributed tunnel - CAPWAP Encapsulation: RFC5415

Ordering Information	
Part Number	Description
DXS-3400-24TC	• 20 10GBASE-T ports and 4 10GBASE-T/SFP+ combo ports, one AC modular power supply, and three fan modules with front-to-back airflow
DXS-3400-24SC	• 20 10 GbE SFP+ ports and 4 10GBASE-T/SFP+ combo ports, one AC modular power supply, and three fan modules with front-to-back airflow
DXS-PWR300AC	• 300 W AC modular power supply with front-to-back airflow
DXS-PWR300DC	• 300 W DC modular power supply with front-to-back airflow
DXS-FAN100	• Fan module with front-to-back airflow
Optional Management Software	
DV-700-N25-LIC	• D-View 7 - 25 node license
DV-700-N50-LIC	• D-View 7 - 50 node license
DV-700-N100-LIC	• D-View 7 - 100 node license
DV-700-N250-LIC	• D-View 7 - 250 node license
DV-700-N500-LIC	• D-View 7 - 500 node license
DV-700-N1000-LIC	• D-View 7 - 1000 node license
DV-700-P5-LIC	• D-View 7 - 5 probe license
DV-700-P10-LIC	• D-View 7 - 10 probe license
DV-700-P25-LIC	• D-View 7 - 25 probe license
DV-700-P50-LIC	• D-View 7 - 50 probe license
DV-700-P100-LIC	• D-View 7 - 100 probe license
Optional 1000BASE-T SFP Transceivers	
DGS-712	• 1000BASE-T Copper SFP Transceiver
Optional 100/1000 Mbps SFP Transceivers	
DEM-302S-LX	• 1000BASE-LX Single-mode, 2 km
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
DEM-315GT	• 1000BASE-ZX Single-mode, 80 km

# DXS-3400 Series

## Lite Layer 3 Stackable 10 GbE Managed Switches

Optional WDM (BiDi) SFP Transceivers	
DEM-302S-BXD	• 1000BASE-BX-D Single-mode, 2 km (TX-1550/RX-1310 nm)
DEM-302S-BXU	• 1000BASE-BX-U Single-mode, 2 km (TX-1310/RX-1550 nm)
DEM-330T	• 1000BASE-BX-D Single-mode, 10 km (TX-1550/RX-1310 nm)
DEM-330R	• 1000BASE-BX-U Single-mode, 10 km (TX-1310/RX-1550 nm)
DEM-331T	• 1000BASE-BX-D Single-mode, 40 km (TX-1550/RX-1310 nm)
DEM-331R	• 1000BASE-BX-U Single-mode, 40 km (TX-1310/RX-1550 nm)
Optional 10G SFP+ Transceivers	
DEM-431XT	• 10GBASE-SR Multi-mode, OM1:33M/OM2:82M/OM3:300M (w/o DDM)
DEM-431XT-DD	• 10GBASE-SR Multi-mode, OM1:33M/OM2:82M/OM3:300M (with DDM)
DEM-432XT	• 10GBASE-LR Single-mode, 10 km (w/o DDM)
DEM-432XT-DD	• 10GBASE-LR Single-mode, 10 km (with DDM)
DEM-433XT	• 10GBASE-ER Single-mode, 40 km (w/o DDM)
DEM-433XT-DD	• 10GBASE-ER Single-mode, 40 km (with DDM)
DEM-434XT	• 10GBASE-ZR Single-mode, 80 km (w/o DDM)
DEM-435XT	• 10GBASE-LRM Multi-mode, 200 m (w/o DDM)
DEM-435XT-DD	• 10GBASE-LRM Multi-mode, 200 m (with DDM)
Optional WDM (BiDi) SFP+ Transceivers	
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 10G Ethernet Adapter	
DXE-810S	• Single port 10G SFP+ PCI Express adapter
DXE-810T	• Single port 10GBASE-T RJ-45 PCI Express adapter
DXE-820T	• Dual port 10GBASE-T RJ-45 PCI Express adapter
Optional 10G SFP+ Direct Attach Cables	
DEM-CB100S	• 10G SFP+ to SFP+ 1 m Direct Attach Cable
DEM-CB300S	• 10G SFP+ to SFP+ 3 m Direct Attach Cable
DEM-CB100QXS-4XS	• 40G QSFP+ to 4 10G SFP+ 1 m Direct Attach Cable
Optional License Upgrades	
DXS-3400-24SC-SE-LIC	• DXS-3400-24SC Standard Image to Enhanced Image license
DXS-3400-24TC-SE-LIC	• DXS-3400-24TC Standard Image to Enhanced Image license

<sup>1</sup> D-Link MLAG Switch does not support L3 features and L2 feature only supports LACP. For management, you can use the management interface (OOB interface) directly or establish a separate VLAN and use the port as a management interface

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