

Highlights

High Performance

Future-proof your network with 100G uplink port speeds and 24 * 10GE SFP+ downlink port speed with forwarding rates up to 952 Mpps and 1.2 Tbps switching bandwidth

High Availability

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

Easy Management

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



DXS-F3400-28SC

Layer 3 10 GbE Managed Switch

Features

High Availability and Flexibility

- · 24* 10GE SFP+ & 4*100GE QSFP28 Ports
- Two AC hot-swappable power modules for 1+1 redundancy and load sharing
- Ethernet Ring Protection Switching (ERPS)

Traffic Monitoring & Bandwidth Control

- · Port mirroring, Bandwidth Control
- · Broadcast, Multicast, Unicast storm control

Easy Management

- · RJ-45 console port
- · Management port
- USB port 2.0

OAM

- IEEE 802.3ah Ethernet link OAM
- IEEE 802.1ag
- ITU-T Y.1731

D-Link's DXS-F3400-28SC Layer3 10 GbE Managed Switch is a new, compact, high-performance switch that feature wire-speed 10-Gigabit Ethernet switching, routing, and ultra-low latency. The 1U height and high port density make the DXS-F3400-28SC Switch suitable for enterprise and campus environments where space is at a premium.

High Availability and Flexibility

This switch feature a modular power supply design for a high availability architecture. The hot-swappable design means that power supplies can be replaced without affecting switch operation. Virtual switch stacking allow the switch to be managed from a single IP address and provide redundancy for connected devices.

Switch and Link Failover

In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the DXS-F3400-28SC also supports advanced Ethernet failover redundancy technologies, such as Ethernet Ring Protection Switching (ERPS) and FlexLink. ERPS provides millisecond-level failover in a ring topology, while FlexLink offers link failover on designated switch ports, providing link redundancy without STP or LBD.

Layer3 Routing

The DXS-F3400-28SC having features a wide range of Layer 2, VLAN, multicasting, Quality of Service (QoS), security, data center, and static routing protocols including RIP, VRRP and OSPF. IPv4/v6 routing including BGP and L3 multicasting features such as IGMP, MLD, PIM-DM, SM. The DXS-F3400-28SC to be deployed as the core router or as an aggregation switch in an enterprise environment.



DXS-F3400-28SC Layer 3 10 GbE Managed Switch

Technical Specificat	tions	
General		
Interfaces	• 24* 10GE SFP+ & 4*100GE QSFP28 Ports	
Console Port	RJ-45 console ports for out-of-band CLI management	
Management Port	• 10/100/1000BASE-T RJ-45 Ethernet for out-of-band IP management	
USB Port	• 1*2.0 port	
Performance		
Switching Capacity	• 1.280 Tbps	
MAC Address Table	• Up to 32K entries	
Packet Forwarding	• 952 MPPS	
Packet Buffer Memory	• 4 MB	
Physical Physical	TIND	
Flash	• 32 MB	
DRAM	•1 GB	
Power Input	• 100 to 240 V AC, 50Hz ± 10%	
Power Consumption	No Load: 45W, Full Load: 70W	
Weight	• 7.1Kg	
MTBF (H)	•>100 000	
Dimensions (W x D x H)	• 440 x 350 x 44 mm	
Operating Temperature	• 0 to 50 °C	
FAN	• 4 Smart Internal Fans	
Standard Image Soft	ware Features	
Stackability	VSS (up to 4 Switches)	
L2 Features	MAC Address Table Up to 32K entries Flow Control 802.3x Flow Control when using full-duplex Back Pressure when using half-duplex HOL Blocking Prevention Spanning Tree Protocol 802.1D STP 802.1w RSTP 802.1s MSTP Root Guard Loop Guard Jumbo Frame Up to 9Kb	 802.1AX Link Aggregation 8 groups per device, 8 ports per group ERPS (Ethernet Ring Protection Switching) Port mirroring Supports one-to-one, many-to-one Supports mirroring for Tx/Rx/both Supports 4 mirroring groups VLAN mirroring L2 protocol tunneling Loopback Detection (LBD)
L2 Multicast Features	IGMP Snooping IGMP v1/v2/v3 Snooping Supports 2K IGMP groups IGMP Snooping Querier Host-based IGMP Snooping Fast Leave	 MLD Snooping MLD v1/v2 Snooping Supports 256 groups Host-based MLD Snooping Fast Leave MLD Snooping Querier



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VLAN	802.1q Double VLAN (Q-in-Q) Port-based Q-in-Q Selective Q-in-Q Port-based VLAN MAC-based VLAN Private VLAN	VLAN group Max. 4K static VLAN groups Max. 4094 VIDs ISM VLAN (multicast VLAN) VLAN trunking GVRP
Quality of Service (QoS)	802.1p Quality of Service 8 queues per port CoS based on 802.1p Priority Queues DSCP MAC address VLAN TCP/UDP port Switch port Congestion Control WRED	Bandwidth Control Port-based (ingress/egress, min. granularity 64 Kb/s) Queue Handling Strict Priority (SP) Weighted Round Robin (WRR) WFQ DRR
Access Control List (ACL)	ACL based on: 802.1p priority VLAN MAC address IP address DSCP TCP/UDP port number	Time-based ACL Max. ACL entries: Ingress (hardware entries): 1K Egress (hardware entries): 1K
Security	 Port isolation, Port security, and "IP+MAC+port" binding, MAC Sticky DHCP Snooping and option 82, DAI & IP source guard IEEE 802.1x, Radius and Tacacs+ L2/L3/L4 ACL flow identification and filtration Anti-attack from 	 DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown unicast storm-control Supports encryption MD5, SHA-256, RSA-1024, AES256, etc.
L3 Features	ARP IP Interface 1K Loopback interface IPv6 Neighbor Discovery (ND)	UDP helperIPv6 tunnelingIGMP Proxy ReportingVRRP v2/v3
L3 Routing	Static routing IPv4 8K IPvv6 4K Default routing Policy-based Route (PBR) Null route Bidirectional Forwarding Detection (BFD) IPv4/IPv6 static route OSPF BGP, BGPv4 OSPF OSPF v2/v3 OSPF Passive Interface Stub/NSSA Area Graceful Restart (GR) Helper for OSPF Route Preference	RIP RIP v1/v2 RIPng Route Redistribution Default route Static route RIP RIPng OSPF BGP



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Layer 3 10 GbE Managed Switch

Management	Web-based GUI Support IPv4/IPv6 access Support SSL (HTTPS) Command Line Interface (CLI) Telnet Server for IPv4/IPv6 access Telnet Client for IPv4/IPv6 SNMP Support v1/v2c/v3 Support IPv4/IPv6 access SNMP Trap TFTP Client for IPv4/IPv6 FTP Client for IPv4/IPv6 IPv4 SFTP Server RMONv1 Supports 1, 2, 3, 9 groups RMONv2 Supports ProbeConfig group	 LLDP/LLDP-MED DHCP/DHCPv6 Local Relay DHCP Server Support IPv4/IPv6 address assignment Dual Images/ Dual Configurations DNS Relay for IPv4/IPv6 DNS Client for IPv4/IPv6 Debug Command Password recovery/ encryption Ping/ Traceroute for IPv4/IPv6 sFlow ZTP
L3 Features	IPv6 Tunneling Static ISATAP 6to4	
L3 Multicast	• IGMP v1/v2/v3 • MLD v1/v2	• PIM-DM/SM
OAM (Operations, Administration and Maintenance)	802.3ah Ethernet Link OAM Unidirectional Link Detection (DULD) Dying Gasp	 802.1ag Connectivity Fault Management (CFM) Y.1731 OAM Optical Transceiver Digital Diagnostic Monitoring (DDM)

DXS-F3400-28SC

Layer 3 10 GbE Managed Switch

Ordering Information			
Part Number	Description		
DXS-F3400-28SC	24* 10GE SFP+ ports & 4*100GE QSFP28 ports Layer 3 10GbE Managed Switch with 2 internal AC power supply		
Optional 10 Gbe SFP+ Transceivers & DAC cable			
DEM-431XT	10GBASE-SR Multi-mode, OM1:33M/OM2:82M/OM3:300M		
DEM-432XT/TW	10GBASE-LR Single-mode, 10 km		
DEM-410T	10GBASE-T up to 30 m with CAT 6A cable		
DEM-CB100S	10G SFP+ to SFP+ 1 m Direct Attach Cable		
DEM-CB300S	10G SFP+ to SFP+ 3 m Direct Attach Cable		
Optional 1 Gbe SFP Transceivers			
DGS-712-G	1000BASE-T Copper SFP Transceiver		
DEM-310GT/TW	1000BASE-LX Single-mode, 10 km		
DEM-311GT	1000BASE-SX Multi-mode, 550 m		
Optional 100G QSFF	Optional 100G QSFP28 Transceivers4		
DEM-Q2801Q-SR4	100GBASE-SR4 QSFP28, Multi-Mode 100 m SR4 transceiver		
DEM-Q2810Q-LR4	100GBASE-LR4 QSFP28, Single-Mode 10 km LR4 transceiver		
Optional 40G QSFP-	+ Transceivers4		
DEM-QX01Q-SR4	40GBASE-SR4 Multi-mode, OM3:100M/OM4:150 m		
DEM-QX10Q-LR4	40GBASE-LR4 Single-mode, 10 km		
Optional 100G QSFP28 Direct Attach Cables			
DEM-CB100Q28	100G QSFP28 to QSFP28 1 m Direct Attach Cable		
Optional 40G QSFP-	+ Direct Attach Cables		
DEM-CB100QXS	40G QSFP+ to QSFP+ 1 m Direct Attach Cable		

