

10 Gigabit Ethernet Smart Managed Switches

Technical Specifications		
Model Number	• DXS-1100-10TS	• DXS-1100-16SC
General		
Hardware Version	• A1	
Size	• 17-inch rackmount width • 1U height	
Number of Ports	• 8 x 10GBASE-T ports • 2 x SFP+ ports	• 14 x SFP+ ports • 2 x 10GBASE-T/SFP+ combo ports
Port Functions	<ul style="list-style-type: none"> • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet <ul style="list-style-type: none"> • IEEE 802.3az compliance • IEEE 802.3an 10GBASE-T 10GbE over copper <ul style="list-style-type: none"> • IEEE 802.3ae 10GbE over fiber • IEEE 802.3z 1000BASE-X • IEEE 802.3x Flow Control • Auto-MDI/MDIX support for 1000/10GBASE-T 	
Performance		
Switching Capacity	• 200 Gbps	• 320 Gbps
Maximum Forwarding Rate	• 148,801 Mpps	• 238,096 Mpps
MAC Address Table Size	• 16,384 entries	
Packet Buffer	• 2 MB	
Flash Memory	• 128 MB	
Power Consumption		
Maximum Power Consumption	• 50.9 W	• 60.0 W
Standby Power Consumption	• 16.1 W	• 14.35 W
Physical		
Power Input	• 100 to 240 V AC	
MTBF	• 585,959 hours	• 254,038 hours
Acoustics	• 46.4 dB(A)	• 48.0 dB(A)
Heat Dissipation	• 173.57 BTU/h	• 204.73 BTU/h
Weight	• 2.686 kg (5.93 lbs)	• 2.91 kg (6.42 lbs)
Dimensions (L x W x H)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)
Ventilation	• 2 x Smart Fans	
Operating Temperature	• -5 to 50 °C (23 to 122 °F)	
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)	
Operating Humidity	• 0% to 95% non-condensing	
Storage Humidity	• 0% to 95% non-condensing	
EMI	• CE, FCC, RCM, VCCI, BSMI, CCC	
Safety	• cUL, CB, CE, CCC, BSMI	

Software Features		
VLAN	<ul style="list-style-type: none"> • 802.1Q VLAN • Port-based VLAN • 128 VLAN groups • Configurable VID • 1-4094 	<ul style="list-style-type: none"> • Voice VLAN • Auto Surveillance VLAN • Asymmetric VLAN
L2 Features	<ul style="list-style-type: none"> • MAC Address Table <ul style="list-style-type: none"> • Up to 16,384 entries • Static MAC Address <ul style="list-style-type: none"> • 512 entries • IGMP Snooping <ul style="list-style-type: none"> • IGMP v1/v2 Snooping • Supports up to 512 IGMP groups • Supports 512 static multicast addresses • MLD Snooping <ul style="list-style-type: none"> • MLD v1 Snooping • MLD v2 Awareness • Supports up to 512 MLD groups • Supports 512 static multicast addresses • LLDP • LLDP-MED • Spanning Tree Protocol <ul style="list-style-type: none"> • 802.1D STP • 802.1w RSTP 	<ul style="list-style-type: none"> • Flow Control <ul style="list-style-type: none"> • 802.3x Flow Control • HOL Blocking Prevention • Port Mirroring <ul style="list-style-type: none"> • One-to-One • Many-to-One • Support Mirroring for Tx/Rx/Both • Link Aggregation <ul style="list-style-type: none"> • 802.1AX • 802.3ad • Maximum of 5 groups/ 4 ports per group • Jumbo Frame <ul style="list-style-type: none"> • Up to 9,216 Bytes • Loopback Detection
Quality of Service (QoS)	<ul style="list-style-type: none"> • CoS based on <ul style="list-style-type: none"> • 802.1p Priority • 802.1p Priority Queue • 8 queues per port 	<ul style="list-style-type: none"> • Queue Handling <ul style="list-style-type: none"> • Strict Priority Queue • Weighted Round Robin (WRR) • Bandwidth Control <ul style="list-style-type: none"> • Port-based (Ingress/Egress, min. granularity 64 Kbps)
L3 Features	<ul style="list-style-type: none"> • IPv6 Neighbor Discovery (ND) 	
Security	<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • Traffic Segmentation • SSL <ul style="list-style-type: none"> • Support v1/v2/v3 • Support IPv4/IPv6 	<ul style="list-style-type: none"> • ARP Spoofing Prevention <ul style="list-style-type: none"> • Max. 128 entries • DoS Attack Prevention <ul style="list-style-type: none"> • Port Security • Supports up to 64 MAC addresses per port • Duplicate Address Detection (DAD)
Operations, Administration, and Maintenance (OAM)	<ul style="list-style-type: none"> • Cable Diagnostics 	
AAA	<ul style="list-style-type: none"> • Authentication for management access 	
Management	<ul style="list-style-type: none"> • Web-based GUI • D-Link Network Assistant Utility • TFTP client • SNMP <ul style="list-style-type: none"> • Support v1/v2c/v3 • SNMP trap 	<ul style="list-style-type: none"> • LLDP • LLDP-MED • System Log • SNMP • ICMPv6 • Dual Images • Dual Configurations • RMON v1/v2
Green Technology	<ul style="list-style-type: none"> • Power Saving by: <ul style="list-style-type: none"> • Link Status • Cable Length 	<ul style="list-style-type: none"> • LED Shutoff • Port Shutoff • System Hibernation

DXS-1100 Series

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MIB/RFC Standards	<ul style="list-style-type: none"> • RFC783 TFTP • RFC951 BootP/DHCP Client • RFC1157 SNMP v1, v2, v3 • RFC1213 MIB II • RFC1215 MIB Traps Convention • RFC1350 TFTP • RFC1493 Bridge MIB • RFC1542 Bootp/DHCP Client • RFC1769 SNTp • RFC1901 SNMP v1, v2, v3 • RFC2131 Bootp/DHCP Client • RFC2246 SSL • RFC2461 Neighbor Discovery for IPv6 • RFC2570 SNMP v1, v2, v3 • RFC2575 SNMP v1, v2, v3 	<ul style="list-style-type: none"> • RFC2598 CoS • RFC2674 802.1p MIB • RFC3164 System Log • RFC3195 System Log • RFC3411~17 SNMP • RFC4213 IPv4/IPv6 dual stack • RFC4293 IPv6 SNMP mgmt. Interface MIB • RFC4363 802.1p MIB • RFC4861 Neighbor Discovery for IPv6 • DLINK Private MIB • LLDP MIB • Zone Defense MIB • Interface Group MIB
Optional 10 Gigabit Ethernet SFP+ Direct Attach Cables		
DEM-CB100S	10GbE SFP+ 1 m Direct Attach Cable	
DEM-CB300S	10GbE SFP+ 3 m Direct Attach Cable	
Optional Gigabit Ethernet SFP transceivers		
DEM-310GT	1000BASE-LX Single-Mode, 10 km	
DEM-311GT	1000BASE-SX Multi-mode, 550 m	
DEM-312GT2	1000BASE-SX Multi-mode, 2 km	
Optional 10 Gigabit Ethernet SFP+ transceivers		
DEM-431XT	10GBASE-SR Multi-Mode, OM1: 33 m/OM2: 82 m/OM3: 300 m (w/o DDM)	
DEM-432XT	10GBASE-LR Single-Mode, 10 km (w/o DDM)	
DEM-432XT-DD	10GBASE-LR Single-Mode, 10 km (with DDM)	
Optional 10 Gigabit Ethernet Adapter		
DXE-820T	Dual Port 10GBASE-T RJ-45 PCI Express Adapter	



For more information: www.dlink.com

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