

10 Gigabit Ethernet Smart Managed Switches

| Technical Specifications | | | |
|---------------------------|--|--|---|
| Model Number | • DXS-1100-10TS | • DXS-1100-16TC | • 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 | • 12 x 10GBASE-T ports • 2 x 10GBASE-T/SFP+ combo 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 | • 320 Gbps |
| Maximum Forwarding Rate | • 148,801 Mpps | • 238,081 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 | • 84.1 W | • 60.0 W |
| Standby Power Consumption | • 16.1 W | • 26.7 W | • 14.35 W |
| Physical | | | |
| Power Input | • 100 to 240 V AC | | |
| MTBF | • 585,959 hours | • 489,221 hours | • 254,038 hours |
| Acoustics | • 46.4 dB(A) | • 45.9 dB(A) | • 48.0 dB(A) |
| Heat Dissipation | • 173.57 BTU/h | • 286.781 BTU/h | • 204.73 BTU/h |
| Weight | • 2.686 kg (5.93 lbs) | • 2.91 kg (6.42 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 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 | | |

10 Gigabit Ethernet Smart Managed Switches

| 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 |

| | |
|-------------------|--|
| 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• 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 |
|-------------------|--|

| Order Information | |
|--|--|
| <i>Part Number</i> | <i>Description</i> |
| DXS-1100-10TS | 8-port 10GBASE-T and 2-port SFP+ |
| DXS-1100-16TC | 12-port 10GBASE-T and 2-port SFP+ and 2-port 10GBASE-T/SFP+ combo design |
| DXS-1100-16SC | 14-port SFP+ and 2-port 10GBASE-T/SFP+ combo design |
| 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 |
| DEM-CB700S | 10GbE SFP+ 7 m Direct Attach Cable |
| Optional Gigabit Ethernet SFP transceivers | |
| DGS-712 | 1000BASE-T Copper SFP Transceiver |
| 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 |
| 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 10 Gigabit Ethernet SFP+ transceivers | |
| DEM-431XT | 10GBASE-SR Multi-Mode, OM1: 33 m/OM2: 82 m/OM3: 300 m (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-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) |

DXS-1100 Series

10 Gigabit Ethernet Smart Managed Switches

| Optional 10 Gigabit Ethernet Adapter | |
|--------------------------------------|---|
| DXE-810S | Single Port 10GbE 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 |

Updated 2016/04/28