DXS-3600 Series

High Performance and Flexibility
- Fast performance with up to 960 Gbps switching capacity
- 24 fixed SFP+ 10G ports with one expansion module
- Up to four devices can be stacked together to function as one switch
- Selectable airflow direction
- Selectable software image license
- Two AC/DC hot-swappable power modules support 1+1 power redundancy and load sharing
- Three hot-swappable fans trays provide N+1 cooling redundancy

Data Center 10GbE Top-of-Rack Switch

D-Link's DXS-3600 10GbE L2/L3 Switch family consist of new compact, high-performance switches that feature wired-speed 10-Gigabit Ethernet switching, routing, and very low latency. The 1U height and selectable front-to-back or back-to-front air flow make the DXS-3600 series suitable for top-of-rack (ToR) deployment in data centers or enterprise and campus aggregation network environments. The DXS-3600 switches have 24 fixed 10 GbE SFP+ ports and can feature more ports with the addition of an expansion module. The expansion modules not only provide extra 10G SFP+ ports, but also increase the flexibility of 120G stacking, 40G uplinks or low cost inter-rack 10G Base-T connections for different applications.

The DXS-3600 switches deliver high-performance 10-Gigabit Ethernet switching capacity of up to 960 Gbps and forwarding rates of up to 595.2 Mpps. The switches feature hot-swappable power supplies and fan trays, which enable the switches to be a redundant, high availability architecture. The modular power design allows users to select AC or DC power according to where the switch is deployed. When inserting two power modules, the two power modules share the loading and help to extend the lifetime of the other. The DXS-3600 series also features a modular fan design. Three fans can back up each other, providing N+1 redundancy for the system. If one of the fans fails, the other fans will increase their speed by automatically detecting the system temperature. Both power and fan modules are hot-swappable, which minimizes the downtime of the DXS-3600 series.

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Data Center Features
- IEEE 802.1Qbb1
- IEEE 802.1Qaz1
- IEEE 802.1Qau1

Advanced Features
- MPLS1
- OSPF/BGP
- ERPS1
- NLB1
- Three Color Marker
- Congestion Control1

Easy Management
- Web-based GUI
- Telnet
- Command Line Interface (CLI)
- SSH, SSL1
- SNMP & RMON
- RADIUS/TACACS+
- LLDP/LLDP-MED

1 These features will be supported in a future version.

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# DXS-3600 Series

## Technical Specifications

### General

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interfaces</strong></td>
<td>24 fixed SFP+ 10G ports with one expansion module</td>
</tr>
<tr>
<td>Console Port</td>
<td>RJ-45 console port for out-of-band management</td>
</tr>
<tr>
<td>Management Port</td>
<td>10/100/1000 Base-T RJ-45 Ethernet for out-of-band remote management</td>
</tr>
<tr>
<td>SD Card Slot</td>
<td>1</td>
</tr>
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</table>

### Performance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switching Capacity</td>
<td>960 Gbps</td>
</tr>
<tr>
<td>Max. Forwarding Rate</td>
<td>595.2 Mpps</td>
</tr>
<tr>
<td>Packet Buffer Memory</td>
<td>9 MB</td>
</tr>
<tr>
<td>MAC Address Table</td>
<td>128K</td>
</tr>
</tbody>
</table>

### Physical Environment

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Input</td>
<td>100 to 240 V AC, 50/60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Maximum: 115.3 W (without expansion module)</td>
</tr>
<tr>
<td></td>
<td>Standby: 85.9 W</td>
</tr>
<tr>
<td>Heat Dissipation</td>
<td>Maximum: 393.4 BTU/hr</td>
</tr>
<tr>
<td></td>
<td>Standby: 293.1 BTU/hr</td>
</tr>
<tr>
<td>Dimension (W x D x H)</td>
<td>440 x 506 x 44 mm (17.32 x 19.92 x 1.73 inches)</td>
</tr>
<tr>
<td>Weight</td>
<td>Without expansion module: 9.84 kg (21.70 pounds)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 45 °C (32 to 113 °F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>40 to 70 °C (104 to 158 °F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0% to 95% RH</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>0% to 95% RH</td>
</tr>
<tr>
<td>Diagnostic LEDs</td>
<td>Per device: Power 1, Power 2, Fan 1, Fan 2, Fan 3, Console, MGMT, SD Card, Stacking ID</td>
</tr>
<tr>
<td></td>
<td>Per SFP+ Port: Link/Activity/Speed</td>
</tr>
</tbody>
</table>

### Certifications

<table>
<thead>
<tr>
<th>Safety</th>
<th>CB, cUL, LVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMI/EMC</td>
<td>FCC, CE, C-Tick, IC, VCCI</td>
</tr>
</tbody>
</table>
Stackability
- Virtual Stacking/Clustering of up to 32 units
- Supports D-Link Single IP Management

L2 Features
- MAC Address Table - 128K entries
- Flow Control - 802.3x Flow Control when Full Duplex - Back Pressure when Half Duplex - HOL Blocking Prevention
- Spanning Tree Protocol - 802.1D STP - 802.1w RSTP - 802.1D STP
- Loopback Diagnostics
- 802.1AX Link Aggregation
- 802.1v
- 802.1Q

L2 Multicast Features
- IGMP Snooping - IGMP v1/v2/v3 Snooping - Supports 4K IGMP groups - Supports 1K static multicast addresses - IGMP per VLAN
- L2 Multicast Filtering - Forwards all groups - Forwards all unregistered groups - Filters all unregistered groups
- MLDP Snooping2 - MLDP v1/v2 Snooping - Support 4K groups - Host-based MLDP Snooping Fast Leave

VLAN
- 802.1Q
- 802.1v
- Double VLAN (Q-in-Q) - Port-based Q-in-Q - Selective Q-in-Q

L2 Multicast Features
- Port-based VLAN
- MAC-based VLAN
- Subnet-based VLAN
- Private VLAN2
- VLAN Group - Max. 4K static VLAN groups - Max. 4094 VID6s
- GVRP - Up to 4K dynamic VLANs

QoS (Quality of Service)
- 802.1p Quality of Service
- 8 queues per port
- Queue Handling - Strict - Weighted Round Robin (WRR) - Strict + WRR - Round Robin (RR) - Weighted Elastic Round Robin (WERR)
- CoS based on - 802.1p Priority Queues
- DSCP - IP address
- MAC address
- VLAN
- IPv6 Traffic Class
- IPv6 flow label
- TCP/UDP port

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
- tTCM
- sTCM

Congestion Control
- WRED

Support for following actions:
- Remark 802.1p priority tag
- Remark TOS/DSCP tag

Bandwidth Control
- Committed Information Rate (CIR)

L3 Features (SI version)
- ARP
- 512 Static ARP
- Supports Gratuitous ARP2
- IP Interface - Supports 256 interfaces - Loopback Interface2

L3 Routing (SI version)
- Default Routing
- Static Routing
- Max. 1K IPv4 entries
- Max. 512 IPv6 entries
- Support route distribution
- Support secondary route
- Support Equal Cost/Weighted Cost multi-path route

Access Control List (ACL)
- Max. ACL entries:
  - 1792 ingress ACL rule
  - 1K egress ACL rules
  - 1K VLAN ACL rules
- Time-based ACL
- ACL based on:
  - 802.1p priority
  - VLAN
  - MAC address
  - Ether type
  - IP address
  - DSCP
  - Protocol type
  - TCP/UDP port number
  - IPv6 Traffic Class
  - IPv6 flow label

Security
- Port Security - Supports up to 12K MAC addresses per port/system
- Broadcast/Multicast/Unicast Storm Control
- D-Link Safeguard Engine2
- D-Link Server Screening2
- 802.1X Authentication
- ARP inspection
- DHCP Snooping
- ARP Spoofing Prevention2
- Max. 64 entries

Traffic Segmentation
- SSL2 - Supports v1/v2/v3
- Supports IPv4/IPv6 access
- SSH
- BFDU Attack Prevention
- DOS Attack Prevention

AAA
- 802.1X Authentication
- Supports Port-based access control
- Supports Host-based access control
- Dynamic VLAN Assignment
- Identity-driven Policy (VLAN/ACL/QoS) Assignment
- Web-based Access Control (WAC2)
- MAC-based Access Control (MAC2)
- Guest VLAN

MIB & RFC Standards
- RFC1213 MIB II
- RFC1907 SNMP v2 MIB
- RFC5151 IGMP v3 MIB
- RFC1724 RIPv2 MIB
- RFC2021 RMONv2 MIB
- RFC1643, RFC2358, RFC2665 Ether-like MIB
- RFC2668 802.3 MAU MIB
- RFC2674 802.1p MIB
- RFC2618 RADIUS Authentication Client MIB
- RFC2996 IP Forwarding Table MIB
- RFC2932 IPv4 Multicast Routing MIB
- RFC2934 PIM-MIB for IPv4
- RFC2620 RADIUS Accounting Client MIB
- RFC2925 Trace Out MIB
- RFC2925 Ping MIB
- RFC1850 OSPF MIB
- Private MIB
- RFC1112, RFC2236, RFC3376, RFC4541
- IGMP Snooping
- RFC4363 802.1v
- RFC2338 VRP
- RFC1588, RFC1732, RFC2455, RFC2080 RIPv2
- RFC1370, RFC1765, RFC2228, RFC2740, RFC3101 makes RFC1587 obsolete, RFC2228 makes RFC1583, RFC2178 OSPF v2.3
- RFC1771, RFC1997, RFC2439, RFC2796, RFC2842, RFC2918 BGP
- RFC3973 PIM-DM
- RFC5099 PIM-SM
- RFC5069 PIM-60
- RFC4607 PIM-60
- RFC4607 PIM-60
- RFC4604 PIM SSM
- RFC3376 IGMP
- RFC2475 Priority Queue Mapping
- RFC2475, RFC2498 QoS Flow Actions
- RFC2697, RFC2698 Three Color Marker
- RFC2693, RFC2904, RFC2905, RFC2906 AAA
- RFC3213, RFC2144, RFC2413, RFC2420, RFC2841, RFC3394 Encryption
- RFC2849 One-Time
- RFC3580 802.1X
- RFC2866 RADIUS Accounting
- RFC2136, RFC2139, RFC2865, RFC2618 RADIUS Author. for Management Access
- RFC1492 TACACS+ Auth. for Management Access
Data Center 10GbE Top-of-Rack Switch

- RFC2068, RFC2616 Web-based GUI
- RFC783, RFC1350 TFTP Client
- RFC1157, RFC1901, RFC1908, RFC2570, RFC2574, RFC2575, RFC3411-17 SNMP
- RFC3164 System Log
- RFC2819 RMON v1
- RFC768 UDP
- RFC793 TCP
- RFC826 ARP
- RFC1338, RFC1519 CIDR
- RFC2716, RFC3748 EAP
- RFC2571, RFC2572, RFC2573, RFC2574 SNMP
- RFC3418 SNMP MIB
- RFC1901-1908, RFC1442, RFC2578 SNMP v2 MIB
- RFC2737 Entity MIB
- RFC784 IPv6
- RFC791 IP
- RFC792 ICMP
- RFC793 TCP
- RFC826 ARP
- RFC1338, RFC1519 CIDR
- RFC2716, RFC3748 EAP
- RFC2571, RFC2572, RFC2573, RFC2574 SNMP

Management
- Web-based GUI
- CLI
- Telnet
- TFTP Client
- FTP Client
- Traffic Monitoring
- SNMP
  - Supports v1/v2/v3
- SNMP Trap
- System Log
- DHCP Client
- DHCP Server
- DHCP Relay
- Multiple Image
- Multiple Configuration
- Flash File System
- DNS Resolver
- CPU Monitoring
- MTU Setting
- Traceroute
- LLDP
- DNS Relay
- SMTP
- DHCP Auto Configuration
- SNMPv2
- RCP
- RMONv1
- RMONv2
- Trusted Host
- Password Encryption
- Debug Command

Enhanced Image (EI) Features

L3 Features
- VRRP
- IPv6 Tunneling
  - Static
  - ISATAP
  - GRE
  - 6to4
- L3 Routing
  - Supports 16K hardware routing entries shared by IPv4/IPv6
  - Max. 16K IPv4 entries
  - Max. 8K IPv6 entries
  - Supports 8K hardware L3 forwarding entries shared by IPv4/IPv6

- Max. 8K IPv4 entries
- Max. 4K IPv6 entries
- RIP
  - RIP v1/v2
  - RIPng
- OSPF
  - OSPF v2
  - OSPF v3
  - OSPF Passive Interface
  - Stub/NSSA Area
  - OSPF Equal Cost Route
- BGPv4
- Route Redistribution
- IP Directed Broadcast
- Policy Based Route

L3 Multicasting
- Multicast Table Size: 2K
- IGMP v1, v2, v3
- PIM-DM
- PIM-SM
- PIM-Sparse-Dense Mode
- PIM-SSM
- DVMRP v3
- MLD v1/v2
- MPLS
  - LDP
  - MPLS LSP trigger filtering
  - MPLS label-forwarding

- MPLS GoS
- MPLS ping and traceroute
- L2 protocol tunneling through PW
- VPWS
- VPLS
- PW Redundancy
- L3 VRF
  - MPLS/BGP L3 VPN
  - VRF-Lite
  - MP-BGP
  - VRF aware application

L3 VPN
- MPLS/BGP L3 VPN
- VRF-Lite
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## Optional Products

### Optional Management Software

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>DV-600S</td>
<td>D-View 6.0 Network Management Software Standard Edition</td>
</tr>
<tr>
<td>DV-600P</td>
<td>D-View 6.0 Network Management Software Professional Edition</td>
</tr>
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### Optional 10 Gbps SFP+ Transceivers

<table>
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<tr>
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<tbody>
<tr>
<td>DEM-431XT</td>
<td>10GBASE-SR SFP+ Transceiver (w/o DDM), 80 m: OM1 &amp; OM2 MMF, 300 m: OM3 MMF</td>
</tr>
<tr>
<td>DEM-431XT-DD</td>
<td>10GBASE-SR SFP+ Transceiver (with DDM), 80 m: OM1 &amp; OM2 MMF, 300 m: OM3 MMF</td>
</tr>
<tr>
<td>DEM-432XT</td>
<td>10GBASE-LR SFP+ Transceiver (w/o DDM), 10 km</td>
</tr>
<tr>
<td>DEM-432XT-DD</td>
<td>10GBASE-LR SFP+ Transceiver (with DDM), 10 km</td>
</tr>
<tr>
<td>DEM-433XT</td>
<td>10GBASE-ER SFP+ Transceiver (w/o DDM), 40 km</td>
</tr>
<tr>
<td>DEM-433XT-DD</td>
<td>10GBASE-ER SFP+ Transceiver (with DDM), 40 km</td>
</tr>
<tr>
<td>DEM-434XT</td>
<td>10GBASE-ZR SFP+ Transceiver, (w/o DDM), 80 km</td>
</tr>
<tr>
<td>DEM-435XT</td>
<td>10GBASE-LRM SFP+ Transceiver (w/o DDM), 220 m: OM1 &amp; OM2 MMF, 300 m: OM3 MMF</td>
</tr>
<tr>
<td>DEM-435XT-DD</td>
<td>10GBASE-LRM SFP+ Transceiver (with DDM), 220 m: OM1 &amp; OM2 MMF, 300 m: OM3 MMF</td>
</tr>
<tr>
<td>DEM-436XT-BXU</td>
<td>10BASE-LR BiDi SFP+ Transceiver (w/o DOM), 20 km, TX: 1270 nm, RX: 1330 nm</td>
</tr>
<tr>
<td>DEM-436XT-BXD</td>
<td>10BASE-LR BiDi SFP+ Transceiver (w/o DOM), 20 km, TX: 1330 nm, RX: 1270 nm</td>
</tr>
</tbody>
</table>

### Optional 1 Gbps SFP Transceivers

<table>
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<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEM-310GT</td>
<td>SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 10 km, 3.3 V operating voltage</td>
</tr>
<tr>
<td>DEM-311GT</td>
<td>SFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 550 m, 3.3 V operating voltage</td>
</tr>
<tr>
<td>DEM-312GT2</td>
<td>SFP transceiver 1000BASE-SX standard, multi-mode fiber, max. distance 2 km, 3.3 V operating voltage</td>
</tr>
<tr>
<td>DEM-314GT</td>
<td>SFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltage</td>
</tr>
<tr>
<td>DEM-315GT</td>
<td>SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage</td>
</tr>
<tr>
<td>DEM-330T</td>
<td>WDM SFP transceiver, 1000BASE-BX standard, single-mode fiber, max. distance 10 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nm</td>
</tr>
<tr>
<td>DEM-330R</td>
<td>WDM SFP transceiver, 1000BASE-BX standard, single-mode fiber, max. distance 10 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1550 nm</td>
</tr>
<tr>
<td>DEM-331T</td>
<td>WDM SFP transceiver, 1000BASE-BX standard, single-mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nm</td>
</tr>
<tr>
<td>DEM-331R</td>
<td>WDM SFP transceiver 1000BASE-BX standard, single-mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1550 nm</td>
</tr>
<tr>
<td>DGS-712</td>
<td>SFP transceiver, 1000BASE-TX standard</td>
</tr>
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</table>

### Optional 10 Gbps SFP+ Direct Attach Cables

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>DEM-CB100S</td>
<td>10-GbE SFP+ to SFP+ 1 m Direct Attach Cable</td>
</tr>
<tr>
<td>DEM-CB300S</td>
<td>10-GbE SFP+ to SFP+ 3 m Direct Attach Cable</td>
</tr>
<tr>
<td>DEM-CB700S</td>
<td>10-GbE SFP+ to SFP+ 7 m Direct Attach Cable</td>
</tr>
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## Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DXS-3600-32S/SI</td>
<td>24 fixed SFP+ ports with one expansion slot with Standard Image, one AC power supply, and three fan trays (front-to-back airflow) included</td>
</tr>
<tr>
<td>DXS-3600-32S/EI</td>
<td>24 fixed SFP+ ports with one expansion slot with Enhanced Image, one AC power supply, and three fan trays (front-to-back airflow) included</td>
</tr>
<tr>
<td>DXS-3600-EM-4XT²</td>
<td>4 x 10GBase-T expansion module</td>
</tr>
<tr>
<td>DXS-3600-EM-8T²</td>
<td>8 x 1000Base-T expansion module</td>
</tr>
<tr>
<td>DXS-3600-EM-4QXS²</td>
<td>4 x 40G QSFP+ expansion module</td>
</tr>
<tr>
<td>DXS-3600-EM-8XS²</td>
<td>8 x 10G SFP+ expansion module</td>
</tr>
<tr>
<td>DXS-3600-EM-Stack²</td>
<td>2 x 120G CXP physical stacking module</td>
</tr>
<tr>
<td>DXS-3600-PWR-FB</td>
<td>300W AC power supply tray with front-to-back airflow</td>
</tr>
<tr>
<td>DXS-3600-PWR-BF³</td>
<td>300W AC power supply tray with back-to-front airflow</td>
</tr>
<tr>
<td>DXS-3600-PWRDC-FB</td>
<td>300W DC power supply tray with front-to-back airflow</td>
</tr>
<tr>
<td>DXS-3600-PWRDC-BF³</td>
<td>300W DC power supply tray with back-to-front airflow</td>
</tr>
<tr>
<td>DXS-3600-FAN-FB</td>
<td>Fan tray with front-to-back airflow</td>
</tr>
<tr>
<td>DXS-3600-FAN-BF³</td>
<td>Fan tray with back-to-front airflow</td>
</tr>
</tbody>
</table>

² Product will be available in the future.