The Dell Networking X-Series is a family of smart managed 1GbE and 10GbE Ethernet switches designed for small and medium businesses who crave enterprise-class network control fused with consumer-like ease. X-Series switches have a variety of port counts, PoE options and deployment choices. Setup and management are greatly simplified with an intuitive GUI and hardware design. A broad set of models means deploying capacity on your terms, including the compact 8-port unit designed for desk, wall or ceiling mounting with a smart design.

**Practical innovations for small networks**

Powerful tools inside an elegant interface with app-like functionality make X-Series switches a pleasure to use. Familiar commands and alerts similar to PCs and servers means there is less jargon to learn and more knowledge to gain. Connect, auto-configure, and power VoIP phones and wireless access points with PoE options.

**Sleek navigation with efficient and instinctual work flow**

The design of everything from navigation and clicks to menu structures and help tips was inspired by the way IT pros think and work. Streamlined tools, step-by-step wizards and a concise, informative dashboard make switch configuration and calibration fast and accurate. Common tasks, alerts, port status and network visualization are on one beautiful dashboard screen.

**Unmatched traffic visibility and real-time control**

Optimize cloud services and onsite network applications with security and traffic priority features. See network traffic and move from monitoring to resolving in one continuous sequence. Unique multi-port selection for batch routines plus port profiles for common devices eliminate extra steps and configuration errors.

**Lifetime Limited Warranty**

Dell Networking X-series switches are backed by an industry-leading, lifetime warranty guaranteeing basic hardware service. X-series switches not only provide the quality, reliability and capability you expect from Dell, but also peace of mind that comes with a true lifetime warranty. Details at [Dell.com/lifetimewarranty](http://Dell.com/lifetimewarranty).

**Key features**

- 1 GbE and 10GbE switch family
  - Compact, fanless 1GbE 8, 18, and 26 port switches with optional Power over Ethernet (PoE/PoE+) support
  - PoE-powered 8-port switch for flexible office placement (non-PoE model)
  - Half rack width 26- and 18-port switches with two dedicated 1GbE SFP uplink ports
  - Rack width 52-port switches with four dedicated 10GbE SFP+ uplink ports
  - 10GbE 12-port model for high-speed server and storage connect, or network aggregation
  - Layer 2+ IPV4 and IPV6 functionality including static routing
  - Revolutionary GUI design for ease of setup and “actionable monitoring”
    - Powerful tools inside an elegant interface with app-like functionality
    - Streamlined tools, step-by-step wizards and a customizable dashboard
    - Common tasks, alerts, port status and network visualization on a single dashboard
    - Optimize cloud services and onsite network applications with security and traffic priority features
    - See network traffic and move from monitoring to resolving in one continuous sequence
    - Multi-port selection for batch routines and port profiles for common devices eliminate extra steps and configuration errors
- Tandem rack tray accommodates two half rack-width switches in 1RU
- Dell Fresh Air 2.0 capable performance with energy-efficient operation
- Patented locking plug and console port
### Port attributes

<table>
<thead>
<tr>
<th>X1008/P</th>
<th>X1018/P</th>
<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/100/1000Base-T auto-sensing GbE switching</td>
<td>8</td>
<td>16</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>SFP/SFP+ fiber ports</td>
<td>N</td>
<td>2 SFP</td>
<td>2 SFP</td>
<td>4 SFP/SFP+</td>
</tr>
<tr>
<td>Power over Ethernet (PoE) ports</td>
<td>8 PoE, up to 123W total (X1008P)</td>
<td>16 PoE, up to 246W total (X1018P)</td>
<td>24 PoE/PoE+, up to 369W total (X1026P)</td>
<td>24 PoE/PoE+, up to 369W total (X1052P)</td>
</tr>
<tr>
<td>PoE powered</td>
<td>S (X1008)</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Power reduction for short cables or inactive connections</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Autonegotiation for speed, duplex mode and flow control</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>S</td>
</tr>
<tr>
<td>Auto-MDI/MDIX mode and flow control</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>S</td>
</tr>
</tbody>
</table>

### Performance

<table>
<thead>
<tr>
<th>X1008/P</th>
<th>X1018/P</th>
<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch fabric capacity</td>
<td>Up to 16Gbps</td>
<td>Up to 36Gbps</td>
<td>Up to 52Gbps</td>
<td>Up to 176Gbps</td>
</tr>
<tr>
<td>Forwarding rate</td>
<td>11.9Mpps</td>
<td>26.8Mpps</td>
<td>38.7Mpps</td>
<td>131Mpps</td>
</tr>
<tr>
<td>MAC addresses</td>
<td>16K</td>
<td>16K</td>
<td>16K</td>
<td>16K</td>
</tr>
<tr>
<td>Packet buffer memory</td>
<td>1MB</td>
<td>1MB</td>
<td>1MB</td>
<td>1MB</td>
</tr>
<tr>
<td>Quality of service</td>
<td>X1008/P</td>
<td>X1018/P</td>
<td>X1026/P</td>
<td>X1052/P</td>
</tr>
<tr>
<td>Priority queues per port</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

### Management

<table>
<thead>
<tr>
<th>X1008/P</th>
<th>X1018/P</th>
<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web GUI interface and SNMP monitoring; limited CLI</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>S</td>
</tr>
</tbody>
</table>

### Chassis

<table>
<thead>
<tr>
<th>X1008/P</th>
<th>X1018/P</th>
<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.67 in x 5.95 in x 5.95 in (42.5 mm x 151.13 mm x 151.13 mm)</td>
<td>X1018: 1.62 in x 8.23 in x 9.84 in (41.25 mm x 209.0 mm x 250.0 mm)</td>
<td>X1026: 1.62 in x 8.23 in x 9.84 in (41.25 mm x 209.0 mm x 250.0 mm)</td>
<td>X1052: 1.71 in x 10.63 in x 15.18 in (43.5 mm x 267.3 mm x 384.0 mm)</td>
</tr>
<tr>
<td>Rack mount</td>
<td>N</td>
<td>1RU, half width</td>
<td>1RU, half width</td>
<td>1RU, half width</td>
</tr>
<tr>
<td>Unit weight</td>
<td>X1008: 0.80 Kg</td>
<td>X1008P: 0.83 Kg</td>
<td>X1018: 1.76 Kg</td>
<td>X1018P: 3.21 Kg</td>
</tr>
<tr>
<td>Fans</td>
<td>Fanless design</td>
<td>X1018: Fanless design X1018P: 2 (rear)</td>
<td>X1026: Fanless design X1026P: 2 (rear)</td>
<td>X1052: 2 (rear) X1052P: 4 (rear)</td>
</tr>
<tr>
<td>Airflow (max dB @ 50°C)</td>
<td>N</td>
<td>X1018: 54.6</td>
<td>X1026: 59.8</td>
<td>X1052: 56.7</td>
</tr>
</tbody>
</table>

### 100% lead-free

<table>
<thead>
<tr>
<th>X1008/P</th>
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<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Operating temperature

<table>
<thead>
<tr>
<th>X1008/P</th>
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<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 50°C (32° to 122°F)</td>
<td>0° to 50°C (32° to 122°F)</td>
<td>0° to 50°C (32° to 122°F)</td>
<td>0° to 50°C (32° to 122°F)</td>
<td>0° to 50°C (32° to 122°F)</td>
</tr>
</tbody>
</table>

### Storage temperature

<table>
<thead>
<tr>
<th>X1008/P</th>
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<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20° to 70°C (-4° to 158°F)</td>
<td>-20° to 70°C (-4° to 158°F)</td>
<td>-20° to 70°C (-4° to 158°F)</td>
<td>-20° to 70°C (-4° to 158°F)</td>
<td>-20° to 70°C (-4° to 158°F)</td>
</tr>
</tbody>
</table>

### Operating relative humidity

<table>
<thead>
<tr>
<th>X1008/P</th>
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<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
</tr>
</tbody>
</table>

### Storage relative humidity

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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
<td>10% to 90% non-condensing</td>
</tr>
</tbody>
</table>

### Acoustic (max dB @ 50°C)

<table>
<thead>
<tr>
<th>X1008/P</th>
<th>X1018/P</th>
<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>X1018: N</td>
<td>X1026: N</td>
<td>X1052: 56.7</td>
<td>X1052P: 58.2</td>
</tr>
</tbody>
</table>

### Power

<table>
<thead>
<tr>
<th>X1008/P</th>
<th>X1018/P</th>
<th>X1026/P</th>
<th>X1052/P</th>
<th>X4012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power (max)</td>
<td>X1008: 9.9W X1008P: 14.1W</td>
<td>X1018: 14.7W X1018P: 289.9W</td>
<td>X1026: 17.5W X1026P: 452.8W</td>
<td>X1052: 60.2W X1052P: 475W</td>
</tr>
<tr>
<td>Power (BTU/hr)</td>
<td>X1008: 33.7 X1008P: 484.1</td>
<td>X1018: 50.2 X1018P: 990</td>
<td>X1026: 59.8 X1026P: 1564.3</td>
<td>X1052: 205.2 X1052P: 1620.8</td>
</tr>
</tbody>
</table>
Transceivers
SFP+ 10GBASE-T
SFP+ 100GBASE-SR, 850nm wavelength, up to 300m reach
SFP+ 100GBASE-LR, 1310nm wavelength, up to 10km reach
SFP+, 10GbE, LR, 1310nm wavelength, up to 40km reach
SFP+, 10GbE, ER, 1550nm wavelength, up to 40km reach
Cables
Dell Networking cable, SFP+ to SFP+, 10GbE, copper twinax direct attach cable, 0.5m, 1m, 3m, 5m and 7m

IETF standards supported
RFC 768 UDP
RFC 783 TFTP v2
RFC 791 IP
RFC 792 ICMP
RFC 793 TCP
RFC 813 Window & Ack Strategy
RFC 879 TCP Max. Segment Size Ext
RFC 896 IP/ICMP Congestion Control ARP
RFC 854 Telnet
RFC 855 Telnet Option Specification
RFC 856 Telnet Binary Transmission
RFC 858 Telnet Suppress Go-Ahead option
RFC 894 IP over Ethernet Frames
RFC 919 Broadcast Ethernet Frames
RFC 922 Broadcast Ethernet Frames with Subnets
RFC 920 Domain Requirements
RFC 950 Internet Standard submooting procedure
RFC 951 Bootp
RFC 1027 Using ARP to implement transparent subnet gateways
RFC 1042 A Standards for transmission of IP datagrams over IEEE 802 Networks
RFC 1071 Computing the Internet Checksum
RFC 1112 Internet Gateway Management
RFC 1123 IGMPv4 Snooping
RFC 1124 Requirements for Internet Hosts
RFC 1141 Incremental Updating of the Internet Checksum
RFC 1155 Structure and identification of Management Information (SMI)
RFC 1157 Simple Network Management Protocol (SNMP) version 1
RFC 1350 Trivial File Transfer Protocol (TFTP) Rev. 2
RFC 1515 CIDR-ARCH
RFC 1519 CIDR-TRA
RFC 1533 DHCP options and BOOTP vendor extensions
RFC 1541 Dynamic Host Configuration Protocol (DHCP)
RFC 1542 Clarifications and Extensions for the Bootstrap Protocol
RFC 1612 DNS Client
RFC 1624 Computation of Internet Checksum via Incremental update
RFC 1700 Assigned Numbers
RFC 1812 Requirements for IP version 4 routers
RFC 1867 Form-based File Upload in HTML
RFC 2030 Simple Network Time Protocol (SNTP)
RFC 2121 Dynamic Host Configuration Protocol
RFC 2132 DHCP Options and BootP vendor Extensions
RFC 2236 IGMPv2 Snooping
RFC 2246 TLS protocol, version 1.0
RFC 2284 PPP Extensible Authentication Protocol, EAP, March 1998
RFC 2666 HyperText Transfer Protocol -- HTTP/1.1
RFC 2818 HTTP Over TLS
RFC 2855 Radius
RFC 2866 Radius Accounting
RFC 2867 RADIUS Tunnel Accounting
RFC 2868 RADIUS Tunnel Authentication
RFC 2869 RADIUS Extensions
RFC 2925 Definitions of Managed Objects for Remote Ping Traceroute, and Lookup Operations
RFC 2933 IGMP MIB
RFC 3069 VLAN Aggregation for efficient IP Address allocation
RFC 3164 BSD Syslog Protocol
RFC 3376 IGMPv3 Snooping
RFC 3580 RADIUS

IEEE standards support
IEEE 802.1D Spanning Tree, GARP and GVRP
IEEE 802.3 Traffic Prioritization
IEEE 802.1Q VLAN Trunking
IEEE 802.1w Rapid Spanning Tree Protocol
IEEE 802.1S Multiple Spanning Tree Protocol
IEEE 802.1T IEEE802.1D maintenance
IEEE 802.1V VLAN Classification by Protocol & Port
IEEE 802.1x Port Based Network Access Control
IEEE 802.3 10 Mbps Ethernet
IEEE 802.3i 10base-T
IEEE 802.3u 100Base-T Ethernet
IEEE 802.3x 1000 Mbps Ethernet
IEEE 802.3ab 1000base-T
IEEE 802.3c Frame extension for VLAN tags
IEEE 802.3ad Link Aggregation Control Protocol
IEEE 802.3ae 10 Gb Ethernet
IEEE 802.2 Flow Control
IEEE 802.3i VLAN Classification by Protocol & Port
IEEE 802.tab LLDP
ANSI/TIA-1107-2006 LLDP-MED

IETF standard SNMP traps supported
RFC 1577 linkDown, linkUp, up, authentication Failure, coldStart, ...Traps
RFC 1215 Standard Traps
RFC 1493 newRoot, topologyChange Traps
RFC 3417 Transport Mappings for SNMP
RFC 3418 MIB for SNMP

IEEE MIB support
LAG MIB
Support for 802.3ad functionality

For more information, visit Dell.com/Networking.