



Dell Networking X-Series

1/10GbE switches with an intuitive GUI designed to optimize cloud and onsite network applications

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 customizable 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.

Key features

- Layer 2+ 1 GbE and 10GbE switch family with optional Power over Ethernet (PoE/PoE+) support
 - » Compact, fanless 1GbE 8-port switch
 - » 1GbE 8-port PoE-powered compact design for flexible office placement (non-PoE model)
 - » Half rack width 26- and 18-port switches with two 1GbE SFP uplink ports
 - » Rack width 52-port switches with four 10GbE SFP+ uplink ports
 - » 10GbE 12-port model for high-speed server and storage connect, or network aggregation
- 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
- Side-by-side rack shelf for two swappable 26-port models in one rack unit
- Dell Fresh Air 2.0 capable performance with energyefficient operation
- Locking plug and console port

Legend: $\mathbf{S}-\mathsf{Standard},\,\mathbf{OA}-\mathsf{Option}$ Available, $\mathbf{N}-\mathsf{Not}$ Available

Port attributes	X1008/P	X1018/P	X1026/P	X1052/P	X4012
10/100/1000Base-T auto-sensing GbE switching	8	16	24	48	Ν
SFP 1Gb fiber ports	Ν	2	2	Ν	Ν
SFP+ 10Gb fiber ports	N	N	N	4	12
Power over Ethernet (PoE) ports	8 PoE, up to 123W total (X1008P)	16 PoE, up to 246W total (X1018P)	24 PoE/PoE+, up to 369W total (X1026P)	24 PoE/PoE+, up to 369W total (X1052P)	Ν
PoE powered	S (X1008)	Ν	N	Ν	Ν
Power reduction for short cables or inactive connections	S	S	S	S	Ν
Autonegotiation for speed, duplex mode and flow control	S	S	S	S	Ν
Auto-MDI/MDIX mode and flow control	S	S	S	S	Ν
Performance	X1008/P	X1018/P	X1026/P	X1052/P	X4012
Switch fabric capacity	Up to 16Gbps	Up to 36Gbps	Up to 52Gbps	Up to 176Gbps	Up to 240Gbps
Forwarding rate	11.9Mpps	26.8Mpps	38.7Mpps	131Mpps	178.6Mpps
MAC addresses	16K	16K	16K	16K	16K
Packet buffer memory	8Mb	8Mb	8Mb	8Mb	8Mb
Quality of service	X1008/P	X1018/P	X1026/P	X1052/P	X4012
Priority queues per port	4	4	4	8	8
Management	X1008/P	X1018/P	X1026/P	X1052/P	X4012
Limited SNMP monitoring and CLI management — See User Guide for details	S	S	S	S	Full SNMP monitoring
Chassis	X1008/P	X1018/P	X1026/P	X1052/P	X4012
Dimensions (H x W x D)	1.67 in x 5.95 in x 5.95 in (42.5 mm x 151.13 mm x 151.13 mm)	X1018: 1.62 in x 8.23 in x 9.84 in (41.25 mm x 209.0 mm x 250.0 mm) X1018P: 1.62 in x 8.23 in x 17.72 in (41.25 mm x 209.0 mm x 450.0 mm)	X1026: 1.62 in x 8.23 in x 9.84 in (41.25 mm x 209.0 mm x 250.0 mm) X1026P: 1.62 in x 8.23 in x 17.72 in (41.25 mm x 209.0 mm x 450.0 mm)	X1052: 1.71 in x 17.1 in x 10.63 in (43.5 mm x 434.0 mm x 270.0 mm) X1052P: 1.71 in x 17.1 in x 16.0 in (43.5 mm x 434.0 mm x 407.0 mm)	1.62 in x 8.23 in x 9.84 in (41.25 mm x 209.0 mm x 250.0 mm)
Rack mount	N	1RU, half width	1RU, half width	1RU	1RU, half width
Unit weight	X1008: 0.80 Kg X1008P: 0.83 Kg	X1018: 1.76 Kg X1018P: 3.21 Kg	X1026: 1.88 Kg X1026P: 3.80 Kg	X1052: 3.80 Kg X1052P: 6.00 Kg	2.03 Kg
Fans	Fanless design	X1018: Fanless design X1018P: 2 (rear)	X1026: Fanless design X1026P: 2 (rear)	X1052: 2 (rear) X1052P: 4 (rear)	2 (rear)
Environmental operating conditions	X1008/P	X1018/P	X1026/P	X1052/P	X4012
L00% lead-free	Yes	Yes	Yes	Yes	Yes
Operating temperature	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Storage temperature	-4° to 158° F (-20° to 70°C)	-4° to 158° F (-20° to 70°C)	-4° to 158°F (-20° to 70°C)	-4° to 158° F (-20° to 70°C)	-4° to 158° F (-20° to 70°C)
Operating relative humidity	10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing
Storage relative humidity	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing
Power	X1008/P	X1018/P	X1026/P	X1052/P	X4012
Power supply	X10087P X1008: 24W (external) X1008P: 150W (external)	X1018: 40W X1018P: 280W	X1026: 40W X1026P: 450W	X1052: 100W X1052P: 525W	100W
Power (max)	X1008: 9.7 W X1008P: 13.8W (+124W PoE)	X1018: 21.5 W X1018P: 27.3W (+247W PoE)	X1026: 30W X1026P: 37W (+370W PoE)	X1052: 75 W X1052P: 82W (+370W PoE)	81 W
BTU/hr	X1008: 33.1 BTU/hr X1008P: 47.1 BTU/hr	X1018: 74 BTU/hr X1018P: 93.2 BTU/hr	X1026: 102 BTU/hr X1026P: 126.3 BTU/hr	X1052: 256 BTU/hr X1052P: 279.8 BTU/hr	276.4 BTU/hr

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Port attributes		
Supports Virtual transceiver diagi	Cable Diagnostics by Marvell™ and fiber nostics	
Integrated LEDs analysis	for improved visual monitoring and	
VLAN		
Supports up to 4 VLAN tags	096 port-based VLANs. Honors all 4096	
Quality of service		
Honor 802.1p va	alues and honor IP DSCP values	
	riority and configurable weighted round eduling across queues	
Link aggregation		
	d link aggregation adhering to IEEE ds (static and dynamic, LACP)	
Supports 12 link per group	aggregation groups and up to 4 ports	
Management		
	and restricted IP addresses	
Port mirroring		
Internal DHCP S	erver	
DHCP client sup	port	
Port statistics av	ailable through industry-standard RMON	
Jumbo frame su	pport for packets up to 9,000 bytes	
Broadcast storm	i control	
	ch software via web GUI	
	figurations via web GUI	
Configurable as	web-managed switch	
IEEE standards su	pport	
IEEE 802.1D	Spanning Tree, GARP and GVRP	
IEEE 802.1p IEEE 802.1Q	Traffic Prioritization VLAN Trunking	
IEEE 802.1w	Rapid Spanning Tree Protocol	
IEEE 802.1S	Multiple Spanning Tree Protocol	
IEEE 802.1t IEEE 802.1v	IEEE802.1D maintenance VLAN Classification by Protocol & Port	
IEEE 802.1x	Port Based Network Access Control	
IEEE 802.3	10 Mbps Ethernet	
IEEE 802.3I IEEE 802.3u	10base -T 100Base-T Ethernet	
IEEE 802.3u	1000 Mbps Ethernet	
IEEE 802.3ab	1000Base-T	
IEEE 802.3ac IEEE 802.3ad	Frame extension for VLAN tags Link Aggregation Control Protocol	
IEEE 802.3ae	10 Gig Ethernet	
IEEE 802.2		
IEEE 802.3x IEEE 802.3I		
IEEE 802.51	VLAN Classification by Protocol & Port	
IEEE 802.1ab	LLDP	
ANSI/TIA-	LLDP-MEDW	
1057- 2006		
IETF standards su	oported	
RFC 768	UDP	
RFC 783	TFTP v2	
RFC 791	IP	
RFC 792 RFC 793	ICMP TCP	
RFC 813	Window & Ack Strategy	
REC 879	TCP Max Segment Size Etc	1

111 0 1107	of Management Information (SMI)		
DEC 1750	Simple Network Management		
RFC 1350	Protocol (SNMP) version 1		
	Trivial File Transfer Protocol		
RFC 1518	(TFTP) Rev. 2		
RFC 1519	CIDR-ARCH		
RFC 1533	CIDR-STRA		
	DHCP options and BOOTP vendor		
RFC 1541	extensions		
	Dynamic Host Configuration		
RFC 1542	Protocol (DHCP)		
NIC 1342			
DEC 1610	Clarifications and Extensions for the		
RFC 1612	Bootstrap Protocol		
RFC 1624	DNS Client		
	Computation of Internet Checksum		
RFC 1700	via Incremental update		
RFC 1812	Assigned Numbers		
RFC 1867	Requirements for IP version 4 routers		
RFC 2030	Form-based File Upload in HTML		
	Simple Network Time Protocol (SNTP)		
RFC 2131	Version 4 for IPv4, IPv6 and OSI		
RFC 2132	Dynamic Host Configuration Protocol		
NIC 2132	DHCP Options and BootP vendor		
DEC 2276	Extensions		
RFC 2236	IGMP version 2		
RFC 2246			
RFC 2284	TLS protocol, version 1.0		
	PPP Extensible Authentication		
RFC 2616	Protocol, EAP, March 1998		
RFC 2818	Hypertext Transfer Protocol		
RFC 2865	HTTP Over TLS		
RFC 2866	Radius		
RFC 2867	Radius Accounting		
RFC 2868	RADIUS Tunnel Accounting		
	RADIUS Tunnel Authentication		
RFC 2869	Attributes		
RFC 2925			
	RADIUS Extensions		
	Definitions of Managed Objects for		
RFC 2933	Remote Ping Traceroute, and Lookup		
	Operations		
RFC 3069	IGMP MIB		
	VLAN Aggregation for efficient IP		
RFC 3164	Address allocation		
RFC 3376	BSD Syslog Protocol		
RFC 3580	IGMPv3		
IETE LANS AND AND A	RADIUS		
IETF Internet drafts			
draft-ietf hubmib txt	-etherif-mib-v3-00. Will obsolete RFC 2665		
IETF standards mM	lanagement support		
RFC 1212	MIB Definition		
RFC 1213	MIB II		
RFC 1215	Standard Traps		
RFC 1286	Bridge MIB		
RFC 1442	SMIv2 (SNMPv2 MIB)		

RFC 858

RFC 894

RFC 919

RFC 922

RFC 920

RFC 950

RFC 951

RFC 1027

RFC 1042

RFC 1071

RFC 1112

RFC 1123

RFC 1141

RFC 1155

RFC 1157

Telnet Suppress Go-Ahead option

Broadcast Ethernet Frames with

IP over Ethernet Frames

Domain Requirements

Subnets

procedure

subnet gateways

Protocol (IGMP) V1

Checksum

Bootp

Broadcast Ethernet Frames

Internet Standard subnetting

Using ARP to implement transparent

A Standards for transmission of IP

datagrams over IEEE 802 Networks

Computing the Internet Checksum Internet Gateway Management

Requirements for Internet Hosts Incremental Updating of the Internet

of Management Information (SMI)

Structure and Identification

RFC 1451	Manager-to-Manager MIB
RFC 1493	Definitions of Managed Objects for Bridges
RFC 1573	Evolution of Interfaces
RFC 1643	Etherlike MIB
RFC 1757	Remote Network Monitoring (RMON) MIB
RFC 1901	Community based SNMPv2
RFC 1907	SNMP v2 MIB
RFC 2011	Internet Protocol (IP) MIB using SMIv2
RFC 2012	Transmission Control Protocol (TCP) MIB using SMIv2
RFC 2013	User Datagram Protocol (UDP) MIB using SMIv2
RFC 2233	Interfaces Group using SMIv2
RFC 2358	Etherlike
RFC 2576	Coexistence between Version 1,
	Version 2, and Version 3 of the
	Internet-standard Network
RFC 2579	Management Framework Textual Conventions for SMIv2
RFC 2579	Conformance Statements for SMIv2
RFC 2618	RADIUS MIB
RFC 2665	Ethernet-like Interface Types MIB
RFC 2666	Identification of Ethernet Chip sets
RFC 2674	MIB for Bridge with Traffic Classes,
KI C 20/4	Multicast Filtering and VLAN Extension
	(IEEE802.1p/q MIB)
RFC 2737	ENTITY-MIB
RFC 2819	RMON MIB
RFC 2863	Interface Evolution
RFC 3410	Applicability Statements for SNMP
RFC 3411	An Architecture for Describing
1000111	Simple Network Management
	Protocol (SNMP) Management
	Frameworks
RFC 3412	Message Processing and Dispatching
	for the Simple Network Management
	Protocol (SNMP)
RFC 3413	Simple Network Management
	Protocol (SNMP) Applications
RFC 3414	User-based Security Model (USM) for version 3 of the Simple Network
550 7445	Management Protocol (SNMPv3)
RFC 3415	View-based Access Control
	Model (VACM) for the Simple Network Management Protocol (SNMP)
RFC 3584	Coexistence between Version 1,
11 0 000 1	Version 2, and Version 3 of SNMP
RFC 4330	Simple Network Time Protocol (SNTP)
	Version 4 for IPv4, IPv6 and OSI
	Draft-ietf-magma-snoop-01.txt
	draft-ietf-syslog-device-mib-01.txt
	draft-ietf-bridge-8021x-03.txt
IETF standard SNM	P traps supported
RFC 1157	linkDown, linkupkUp, authentication
	Failure, coldstart,Traps
RFC 1215	Standard Traps
RFC 1493	newRoot, topologyChange Traps
RFC 3416	Version 2 of the Protocol Operations
	for the Simple Network Management
	Protocol (SNMP)
RFC 3417	Transport Mappings for SNMP
RFC 3418	MIB for SNMP
IEEE MIB support	
LAG MIB	Support for 802 3ad functionality
LAG MID	Support for 802.3ad functionality
OFM friendly	

OEM friendly

With an easy to remove Dell badge, your networking device can look as if it was designed by you. Details at Dell.com/OEM.

Limited Lifetime warranty

ARP

Telnet

TCP Max. Segment Size Etc

IP/TCP Congestion Control

Telnet Option Specification

Telnet Binary Transmission

RFC 879

RFC 896

RFC 826

RFC 854

RFC 855

RFC 856

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.

For more information, visit Dell.com/Networking.

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