



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 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 industryleading, 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.

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 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 energyefficient operation
- Patented locking plug and console port



Legend: \mathbf{S} — Standard, \mathbf{OA} — Option Available, \mathbf{N} — Not Available

Port attributes	X1008/P	X1018/P	X1026/P	X1052/P
10/100/1000Base-T auto-sensing GbE switching	8	16	24	48
SFP/SFP+ fiber ports	Ν	2 SFP	2 SFP	4 SFP/SFP+
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)
PoE powered	S (X1008)	N	N	N
Power reduction for short cables or inactive connections	S	S	S	S
Autonegotiation for speed, duplex mode and flow control	S	S	S	S
Auto-MDI/MDIX mode and flow control	S	S	S	S
Performance	X1008/P	X1018/P	X1026/P	X1052/P
Switch fabric capacity	Up to 16Gbps	Up to 36Gbps	Up to 52Gbps	Up to 176Gbps
Forwarding rate	11.9Mpps	26.8Mpps	38.7Mpps	131Mpps
MAC addresses	16K	16K	16K	16K
Packet buffer memory	1MB	1MB	1MB	1MB
Quality of service	X1008/P	X1018/P	X1026/P	X1052/P
Priority queues per port	4	4	4	8
Management	X1008/P	X1018/P	X1026/P	X1052/P
Web GUI interface and SNMP monitoring; limited CLI	S	S	S	S
Chassis	X1008/P	X1018/P	X1026/P	X1052/P
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 1.7.1 in x 16.0 in (43.5 mm x 434.0 mm x 407.0 mm)
Rack mount	N	1RU, half width	1RU, half width	1RU
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
Fans	Fanless design	X1018: Fanless design X1018P: 2 (rear)	X1026: Fanless design X1026P: 2 (rear)	X1052: 2 (rear) X1052P: 4 (rear)
Environmental operating conditions	X1008/P	X1018/P	X1026/P	X1052/P
100% lead-free	Yes	Yes	Yes	Yes
Operating temperature	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)
Storage temperature	-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)
Operating relative humidity	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
Acoustic (max dB @ 50°C)	Ν	X1018: N X1018P: 54.6	X1026: N X1026P: 55.3	X1052: 56.7 X1052P: 58.2

Power	X1008/P	X1018/P	X1026/P	X1052/P
Power supply	X1008: 24W (external) X1008P: 150W (external)	X1018: 40W X1018P: 280W	X1026: 40W X1026P: 450W	X1052: 100W X1052P: 525W
Power (max)	X1008: 9.9W	X1018: 14.7W	X1026: 17.5W	X1052: 60.2W
	X1008P: 141.8W	X1018P: 289.9W	X1026P: 452.8W	X1052P: 475W
Power (BTU/hr)	X1008: 33.7	X1018: 50.2	X1026: 59.8	X1052: 205.2
	X1008P: 484.1	X1018P: 990	X1026P: 1564.3	X1052P: 1620.8



Transceivers

SEP. 1000BASE-T SFP, 1000BASE-SX, 850nm wavelength, up to 550m reach SFP, 1000BASE-LX, 1310nm wavelength, up to 10km reach SFP, 1000BASE-ZX, 1550nm wavelength, up to 80km reach SFP+, 10GbE, USR ("SR-Lite"), 850nm wavelength, up to 100m reach SFP+, 10GbE, SR, 850nm wavelength, up to 300m reach SFP+, 10GbE, LR, 1310nm wavelength, up to 10km 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* *X4012 does not support 7m cable Optional Tandem Tray Mounting Kit 1RU tray to accommodate two half rack width X-series switches (kit includes L-brackets for 800mm deep rack/ cabinet) Size (1RU, H x W x D): 1.7in x 17.7in x 19.1in (43.7mm x 449.4mm x 486.4mm) Approximate weight: 8.3lbs (3.8kg) Port attributes Supports Virtual Cable Diagnostics by Marvell™ and fiber transceiver diagnostics Integrated LEDs for improved visual monitoring and analysis VI AN Supports up to 4096 port-based VLANs. Honors all 4096 VLAN tags **Quality of service** Honor 802.1p values and honor IP DSCP values Supports strict priority and configurable weighted round robin (WRR) scheduling across queues Link aggregation ndustry-standard link aggregation adhering to IEEE 802.3ad standards (static and dynamic, LACP) Supports 12 link aggregation groups and up to 8 ports per group Management Web based GUI management Local password and restricted IP addresses Port mirroring Internal DHCP Server DHCP client support Port statistics available through industry-standard RMON Jumbo frame support for packets up to 9,000 bytes Broadcast storm control Uploadable switch software via USB Uploadable configurations via USB Configurable as web-managed switch IEEE standards support IEEE 802.1D Spanning Tree, GARP and GVRP IEEE 802.1p Traffic Prioritization IEEE 802.10 VLAN Trunking IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1S Multiple Spanning Tree Protocol IEEE 802.1t IEEE802.1D maintenance IFFF 802.1v VLAN Classification by Protocol & Port IEEE 802.1x Port Based Network Access Control IFFF 802 3 10 Mbps Ethernet IEEE 802.31 10base -T 100Base-T Ethernet IEEE 802.3u IEEE 802.3z 1000 Mbps Ethernet IEEE 802.3ab 1000Base-T IEEE 802.3ac Frame extension for VLAN tags IEEE 802.3ad Link Aggregation Control Protocol IEEE 802.3ae 10 Gia Ethernet IEEE 802.2 IEEE 802.3x Flow Control IFFF 802 31 IFFF 802 1v VLAN Classification by Protocol & Port IEEE 802.1ab LLDP ANSI/TIA-LLDP-MEDW 1057-

2006 IETE Internet drafts

IETP Internet draits

draft-ietf hubmib-etherif-mib-v3-00.

Will obsolete

RFC 2665

RFC 768	UDP
RFC 783	TFTP v2
RFC 791	IP ICMD
RFC 792 RFC 793	ICMP TCP
RFC 813	Window & Ack Strategy
RFC 879	TCP Max. Segment Size Etc
RFC 896	IP/TCP Congestion Control
RFC 826 RFC 854	ARP 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 RFC 922	Broadcast Ethernet Frames Broadcast Ethernet Frames with
NIC JEE	Subnets
RFC 920	Domain Requirements
RFC 950	Internet Standard subnetting
RFC 951	procedure Bootp
RFC 1027	Using ARP to implement transparent
	subnet gateways
RFC 1042	A Standards for transmission of IP
RFC 1071	datagrams over IEEE 802 Networks
RFC 1071 RFC 1112	Computing the Internet Checksum Internet Gateway Management
	IGMPv1 snooping
RFC 1123	Requirements for Internet Hosts
RFC 1141	Incremental Updating of the Internet
RFC 1155	Checksum Structure and Identification
KI C 1155	of Management Information (SMI)
RFC 1157	Simple Network Management
	Protocol (SNMP) version 1
RFC 1350	Trivial File Transfer Protocol
RFC 1518	(TFTP) Rev. 2 CIDR-ARCH
RFC 1519	CIDR-STRA
RFC 1533	DHCP options and BOOTP vendor
	extensions
RFC 1541	Dynamic Host Configuration
RFC 1542	Protocol (DHCP) 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) Version 4 for IPv4, IPv6 and OSI
RFC 2131	Dynamic Host Configuration Protocol
RFC 2132	DHCP Options and BootP vendor
	Extensions
RFC 2236	IGMPv2 snooping
RFC 2246 RFC 2284	TLS protocol, version 1.0 PPP Extensible Authentication
NI C 2204	Protocol, EAP, March 1998
RFC 2616	Hypertext Transfer Protocol HTTP/1.1
RFC 2818	HTTP Over TLS
RFC 2865	Radius Radius Accounting
RFC 2866 RFC 2867	RADIUS Tunnel Accounting
RFC 2868	RADIUS Tunnel Authentication
	Attributes
RFC 2869	RADIUS Extensions
RFC 2925	Definitions of Managed Objects for Remote Ping Traceroute, and Lookup
	Operations
RFC 2933	IGMP MIB
RFC 3046	DHCP Relay Agent Information Option
RFC 3069	VLAN Aggregation for efficient IP
RFC 3164	Address allocation BSD Syslog Protocol
RFC 3376	IGMPv3 snooping
RFC 3580	RADIUS

IETF standards supported

IETF standards Management support RFC 1212 MIB Definition REC 1213 MIB II REC 1215 Standard Traps Bridge MIB RFC 1286 SMIv2 (SNMPv2 MIB) RFC 1442 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 Management Framework Textual Conventions for SMIv2 RFC 2579 Conformance Statements for SMIv2 RFC 2580 RFC 2618 RADIUS MIB Ethernet-like Interface Types MIB RFC 2665 RFC 2666 Identification of Ethernet Chip sets RFC 2674 MIB for Bridge with Traffic Classes, Multicast Filtering and VLAN Extension (IEEE802.1p/q MIB) RFC 2737 **ENTITY-MIB** RFC 2819 RMON MIR RFC 2863 Interface Evolution RFC 3410 Applicability Statements for SNMP RFC 3411 An Architecture for Describing 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 User-based Security Model (USM) for RFC 3414 version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP) RFC 3584 Coexistence between Version 1 Version 2, and Version 3 of SNMP REC 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 SNMP traps supported REC 1157 linkDown, linkupkUp, authentication Failure, coldstart, ...Traps REC 1215 Standard Traps RFC 1493 newRoot, topologyChange Traps Version 2 of the Protocol Operations RFC 3416 for the Simple Network Management

IEEE MIB support

RFC 3417

RFC 3418

Protocol (SNMP)

MIB for SNMP

Transport Mappings for SNMP

OEM friendlv

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



