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Switch Dell X Series

Ferramentas poderosas dentro de uma interface elegante com funcionalidade semelhante a aplicativo tornam os switches da série X um prazer de usar. Comandos e alertas familiares semelhantes a PCs e servidores significam que há menos jargão para aprender e mais conhecimento para obter.







DELL EMC NETWORKING X-SERIES

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

The Dell EMC 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.

Extended Life Limited Hardware Warranty (ELW)

Dell EMC X-Series products carry an Extended Life Limited Hardware Warranty (ELW) with Basic Hardware Service, which extends until 5 years after Dell EMC stops selling the product model (End-of-Life or EOL), subject to the specific clarifications and limitations listed above. The Extended Life Limited Hardware Warranty is not transferable.

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 energy-efficient operation
- Patented locking plug and console port

Legend: ${\bf S}$ — Standard, ${\bf OA}$ — Option Available, ${\bf N}$ — 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/SFP+ fiber ports	Ν	2 SFP	2 SFP	4 SFP/SFP+	12 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)	Ν
PoE powered	S (X1008)	N	Ν	Ν	N
Power reduction for short cables or inactive connections	S	S	S	S	N
Autonegotiation for speed, duplex mode and flow control	S	S	S	S	N
Auto-MDI/MDIX mode and flow control	S	S	S	S	N
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	32K
Packet buffer memory	1MB	1MB	1MB	1MB	2MB
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
Web GUI interface and SNMP monitoring:					
limited CLI	S	S	S	S	S
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 171 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 (41.25 mm x 209.0 mm 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
100% lead-free	Yes	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)	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)	-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	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
Acoustic (max dB @ 50°C)	N	X1018: N X1018P: 54.6	X1026: N X1026P: 55.3	X1052: 56.7 X1052P: 58.2	55.6
Power	X1008/P	X1018/P	X1026/P	X1052/P	X4012
Power supply	X1008: 24W (external) X1008P: 150W (external)	X1018: 40W X1018P: 280W	X1026: 40W X1026P: 450W	X1052: 100W X1052P: 525W	100W
Power (max)	X1008: 9.9W X1008P: 141.8W	X1018: 14.7W X1018P: 289.9W	X1026: 17.5W X1026P: 452.8W	X1052: 60.2W X1052P: 475W	41.7W

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Technical specifications

Transceivers			IETF standards s
SFP, 1000BASE-T	-		RFC 768
	SX, 850nm wavelength, u		RFC 783
SFP, 1000BASE-LX, 1310nm wavelength, up to 10km reach			RFC 791 RFC 792
SFP, 1000BASE-ZX, 1550nm wavelength, up to 80km reach SFP+, 10GbE, USR ("SR-Lite"), 850nm wavelength, up to 100m			RFC 793
reach		volorigari, up to toorri	RFC 813
SFP+, 10GbE, SR	, 850nm wavelength, up t	o 300m reach	RFC 879
SFP+, 10GbE, LR	1310nm wavelength, up t	o 10km reach	RFC 896
	, 1550nm wavelength, up	to 40km reach	RFC 826 RFC 854
Cables			RFC 855
	able, SFP+ to SFP+, 10Gl n, 1m, 3m, 5m and 7m*	DE, copper twinax direct	RFC 856
	support 7m cable		RFC 858
	Tray Mounting Kit		RFC 894
1RU tray to accor	nmodate two half rack wi	dth X-series switches (kit	RFC 919
	ts for 800mm deep rack/	cabinet)	RFC 922
	x D): 1.7in x 17.7in x 19.1in		RFC 920
(43.7mm x 449.4r Approximate weig			RFC 950
Port attributes	jiit. 0.5ibs (5.6kg)		RFC 951
	Cable Diagnostics by Mar	vell™ and fiber	RFC 1027
transceiver di			RFC 1042
	or improved visual monito	ring and analysis	
VLAN			RFC 1071
	96 port-based VLANs. Ho	nors all 4096 VLAN tags	RFC 1112
Quality of service Honor 802 to value	ues and honor IP DSCP va	lues	RFC 1123
	iority and configurable wei		RFC 1141
scheduling across		5	
Link aggregation			RFC 1155
	link aggregation adhering	to IEEE 802.3ad	RFC 1157
· ·	and dynamic, LACP)	to ⁰ porto por group	IN C Ho/
Management	ggregation groups and up	i to o poi ts per group	RFC 1350
Web based GUI n	nanagement		
	nd restricted IP addresses	5	RFC 1518
Port mirroring			RFC 1519 RFC 1533
Internal DHCP Se			11 0 1000
DHCP client supp	ort ailable through industry-st	andord DMON	RFC 1541
	port for packets up to 9,0		
Broadcast storm		00.57000	RFC 1542
Uploadable switcl	n software via USB		RFC 1612
Uploadable config			RFC 1624
	veb-managed switch		DE0 1700
IEEE standards su			RFC 1700 RFC 1812
IEEE 802.1D	Spanning Tree, GARP a	and GVRP	RFC 1867
IEEE 802.1p IEEE 802.1Q	Traffic Prioritization VLAN Trunking		RFC 2030
IEEE 802.1w	Rapid Spanning Tree P	rotocol	
IEEE 802.1S	Multiple Spanning Tree		RFC 2131
IEEE 802.1t	IEEE802.1D maintenan		RFC 2132
IEEE 802.1v	VLAN Classification by		RFC 2236
IEEE 802.1x IEEE 802.3	Port Based Network A 10 Mbps Ethernet	CCESS CONTROL	RFC 2246
IEEE 802.31	10base -T		RFC 2284
IEEE 802.3u	100Base-T Ethernet		RFC 2616
IEEE 802.3z	1000 Mbps Ethernet		RFC 2010 RFC 2818
IEEE 802.3ab	1000Base-T	A.N.I	RFC 2865
IEEE 802.3ac IEEE 802.3ad	Frame extension for VI Link Aggregation Cont	*	RFC 2866
IEEE 802.3ae	10 Gig Ethernet	011100000	RFC 2867
IEEE 802.2	0		RFC 2868
IEEE 802.3az	Energy Efficient Ether	net EEE	RFC 2869
IEEE 802.3x	Flow Control		RFC 2009
IEEE 802.3I IEEE 802.1v	VLAN Classification by	Protocol & Port	
IEEE 802.1v IEEE 802.1ab	LLDP		
ANSI/TIA-1057-	LLDP-MEDW		RFC 2933
2006			RFC 3046 RFC 3069
IETF Internet dra	ifts		11 0 0000
	o-etherif-mib-v3-00.txt	Will obsolete	RFC 3164
		RFC 2665	RFC 3376
			RFC 3580 4251
			4201

IETF standards sup	
RFC 768 RFC 783	UDP TFTP v2
RFC 791	IP
RFC 792	ICMP
RFC 793 RFC 813	TCP
RFC 879	Window & Ack Strategy TCP Max. Segment Size Etc
RFC 896	IP/TCP Congestion Control
RFC 826	ARP
RFC 854	Telnet
RFC 855 RFC 856	Telnet Option Specification
RFC 858	Telnet Binary Transmission Telnet Suppress Go-Ahead option
RFC 894	IP over Ethernet Frames
RFC 919	Broadcast Ethernet Frames
RFC 922	Broadcast Ethernet Frames with
RFC 920	Subnets
RFC 920 RFC 950	Domain Requirements Internet Standard subnetting procedure
	Bootp
RFC 951	Using ARP to implement transparent
RFC 1027 RFC 1042	subnet gateways A Standards for transmission of IP
IXI C 1042	datagrams over IEEE 802 Networks
RFC 1071	Computing the Internet Checksum
RFC 1112	Internet Gateway Management
	IGMPv1 snooping
RFC 1123 RFC 1141	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
RFC 1350	Protocol (SNMP) version 1 Trivial File Transfer Protocol
NI C 1550	(TFTP) Rev. 2
RFC 1518	CIDR-ARCH
RFC 1519	CIDR-STRA
RFC 1533	DHCP options and BOOTP vendor
RFC 1541	extensions Dynamic Host Configuration
	Protocol (DHCP)
RFC 1542	Clarifications and Extensions for the
RFC 1612	Bootstrap Protocol DNS Client
RFC 1624	Computation of Internet Checksum
	via Incremental update
RFC 1700	Assigned Numbers
RFC 1812 RFC 1867	Requirements for IP version 4 routers 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
RFC 2236	Extensions IGMPv2 snooping
RFC 2246	TLS protocol, version 1.0
RFC 2284	PPP Extensible Authentication
	Protocol, EAP, March 1998
RFC 2616 RFC 2818	Hypertext Transfer Protocol HTTP/1.1 HTTP Over TLS
RFC 2865	Radius
RFC 2866	Radius Accounting
RFC 2867	RADIUS Tunnel Accounting
RFC 2868	RADIUS Tunnel Authentication
RFC 2869	Attributes RADIUS Extensions
RFC 2009 RFC 2925	Definitions of Managed Objects for
	Remote Ping Traceroute, and Lookup
	Operations
RFC 2933	Operations IGMP MIB
RFC 3046	Operations IGMP MIB DHCP Relay Agent Information Option
	Operations IGMP MIB
RFC 3046	Operations IGMP MIB DHCP Relay Agent Information Option VLAN Aggregation for efficient IP
RFC 3046 RFC 3069 RFC 3164 RFC 3376	Operations IGMP MIB DHCP Relay Agent Information Option VLAN Aggregation for efficient IP Address allocation BSD Syslog Protocol IGMPv3 snooping
RFC 3046 RFC 3069 RFC 3164 RFC 3376 RFC 3580	Operations IGMP MIB DHCP Relay Agent Information Option VLAN Aggregation for efficient IP Address allocation BSD Syslog Protocol IGMPv3 snooping RADIUS
RFC 3046 RFC 3069 RFC 3164 RFC 3376	Operations IGMP MIB DHCP Relay Agent Information Option VLAN Aggregation for efficient IP Address allocation BSD Syslog Protocol IGMPv3 snooping
RFC 3046 RFC 3069 RFC 3164 RFC 3376 RFC 3580 4251 4252 4252 4253	Operations IGMP MIB DHCP Relay Agent Information Option VLAN Aggregation for efficient IP Address allocation BSD Syslog Protocol IGMPv3 snooping RADIUS SSHv2 Protocol SSHv2 Protocol SSHv2 Authentication SSHv2 Transport
RFC 3046 RFC 3069 RFC 3164 RFC 3376 RFC 3580 4251 4252	Operations IGMP MIB DHCP Relay Agent Information Option VLAN Aggregation for efficient IP Address allocation BSD Syslog Protocol IGMPv3 snooping RADIUS SSHv2 Protocol SSHv2 Authentication

IFTE star do do to	
IETF standards Ma RFC 1212	nagement support MIB Definition
RFC 1212 RFC 1213	MIB II
RFC 1215 RFC 1215	Standard Traps
RFC 1286	Bridge MIB
RFC 1442	SMIv2 (SNMPv2 MIB)
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 Internet Protocol (IP) MIB using SMIv2
RFC 2011	Transmission Control Protocol
RFC 2012	(TCP) MIB using SMIv2
DEC 2017	User Datagram Protocol (UDP)
RFC 2013	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	RADIUS MIB
RFC 2618	Ethernet-like Interface Types MIB
RFC 2665	Identification of Ethernet Chip sets
RFC 2666	MIB for Bridge with Traffic Classes,
RFC 2674	Multicast Filtering and VLAN Extension
	(IEEE802.1p/q MIB)
RFC 2737	ENTITY-MIB
RFC 2819	RMON MIB Interface Evolution
RFC 2863	Applicability Statements for SNMP
RFC 3410	An Architecture for Describing
RFC 3411	Simple Network Management
	Protocol (SNMP) Management
	Frameworks
	Message Processing and Dispatching
RFC 3412	for the Simple Network Management
	Protocol (SNMP)
DEC 3/17	Simple Network Management Protocol (SNMP) Applications
RFC 3413	User-based Security Model (USM) for
RFC 3414	version 3 of the Simple Network
	Management Protocol (SNMPv3)
	View-based Access Control
RFC 3415	Model (VACM) for the Simple Network
	Management Protocol (SNMP)
	Coexistence between Version 1,
RFC 3584	Version 2, and Version 3 of SNMP
	Simple Network Time Protocol (SNTP) Version 4 for IPv4, IPv6 and OSI
RFC 4330	Draft-ietf-magma-snoop-01.txt
	draft-ietf-syslog-device-mib-01.txt
	draft-ietf-bridge-8021x-03.txt
RFC 5424	Syslog. To convey event notification
	messages. This protocol utilizes a layered
	architecture, which allows the use of
	any number of transport protocols for
	transmission of syslog messages. It also provides a message format that allows
	vendor-specific extensions to be provided
	in a structured way.

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Technical specifications

IETF standard SNMP 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 IVIID	Support for 602.3au functionality

OEM friendly

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