

N3200-ON Specification Sheet



Dell PowerSwitch N3200-ON Series Switches

High performance Open networking 1GbE and 10GbE Multigigabit switches for modern campus networks

The N3200 switch series offers power-efficient and resilient 1GbE and 1/2.5/5/10GbE Multigigabit range of switching solution for advanced Layer 3 distribution for offices and campus networks. The series has high-performance capabilities and wire-speed performance utilizing a non-blocking architecture to easily handle unexpected traffic loads. Use dual internal hot-swappable 80PLUS Platinum certified power supplies for high availability and power efficiency. The switches offer simple management and scalability via an 400Gbps (full duplex) high-availability stacking architecture that allows management of up to 12 switches from a single IP address.

Modernize campus network architectures

Modernize campus network architectures with a power-efficient and resilient 1/2.5/5/10GbE switching solution with dense options of 802.3at (30W) or 802.3bt (60W/90W) PoE solutions to deliver clean power to wide range network devices such as wireless access points (APs), Voice-over-IP (VoIP) handsets, video conferencing systems, security cameras, LED luminaires and many more.

Achieve high availability and full bandwidth utilization with Multichassis Link Aggregation (MLAG). N3200 series switches support MLAG to create active/active loop-free redundancy without spanning tree. Server rooms can deliver reliable server and storage connectivity with features to help save time and avoid configuration errors. N3200 supports VRF-lite, allowing it to be partitioned into multiple virtual routers with isolated control and data planes on the same physical switch. For greater interoperability in multivendor networks, N3200 switches offer the latest open-standard protocols.

Leverage familiar tools and practices

All N-Series switches include Dell OS6, designed for easier deployment, greater interoperability and a lower learning curve for network administrators. OS6 common command line interface (CLI) and graphic user interface (GUI) are intuitive, so skilled network administrators can get productive quickly. N3200 switches also support the Open Network Install Environment (ONIE), enabling installation of alternate network operating systems.

Deploy with confidence at any scale

N3200 series switches help create performance assurance with a data rate up to 1560Gbps (full duplex) and a forwarding rate up to 2167Mpps. Scale easily with built-in rear stacking ports. Switch stacks of up to 624 1/2.5/5/10GbE/25GbE ports can be managed from a single screen using the highly available stacking architecture for high-density aggregation with seamless redundant availability. The N-series switches' lifetime warranty covers software upgrades, hardware repair or replacement, and optics and cables purchased with the switch.¹

¹ Select Networking products carry a Lifetime Limited Warranty with Basic Hardware Service (repair or replacement) for life. Repair or replacement does not include troubleshooting, configuration, or other advanced service provided by Dell ProSupport See details at https://www.dell.com/en-us/work/shop/networkingwarranty/cp/networkingwarranty

Hardware, performance and efficiency

- 1GbE Switches: 1RU switches with up to 48 line-rate
 1GbE ports of copper or fiber, and four integrated
 10GbE SFP+ ports. PoE variants with up to 48 ports of
 802.3at (30W) PoE.
- Multigig Switches: 1RU switches with up to 48 line-rate 1G/2.5G/ 5G/10GbE copper ports with four integrated 25GbE SFP28 ports. PoE variants with up to 48 ports of 802.3bt (90W) PoE.
- 400Gbps stacking bandwidth using two 100GbE QSFP28 integrated rear stacking ports.
- Available with dual 80PLUS Platinum certified hot swappable internal power supplies. Optional external power supply to extend PoE budgets on specific models.
- Variable speed fan operation helps decrease cooling and power costs.
- Energy-Efficient Ethernet and lower power PHYs reduce power to inactive ports and idle links, providing energy savings from the power cord to the port.
- Dell Fresh Air compliance for operation in environments up to 113°F (45°C) reduces cooling costs.

Deploying, configuring and managing

- USB auto-configuration rapidly deploys the switch without complex TFTP configurations or sending technical staff to remote offices.
- Management via an intuitive and familiar CLI, embedded web server (GUI), SNMP-based management console application (including Dell OpenManage Network Manager), Telnet or serial connection.
- Private VLAN extensions and Private VLAN Edge support.
- AAA authorization, TACACS+ accounting and RADIUS support for comprehensive secure access support.
- Authentication tiering allows network administrators to tier port authentication methods such as 802.1x, MAC Authentication Bypass and Captive Portal in priority order so that a single port can provide flexible access and security.
- Achieve high availability and full bandwidth utilization with MLAG and support firmware upgrades without taking the network offline.
- Layer 3 Advanced IPv4 and IPv6 functionality including BGP, VRF, BFD, PIM-SM/DM/SSM, IGMP/MLD, RIPv1/ v2, OSPFv2/v3
- VXLAN support in hardware only ²
- MACsec support in N3248PXE-ON hardware only ²

Product	Description
N3200 series	OS6 Options (with pre-installed OS6 NOS) N3208PX-ON IO/PS Airflow, with OS6: 4x RJ45 10M/100M/1G/2.5G/5G 802.3bt (up to 90W) PoE auto-sensing ports, 4x 10M/100M/1000Mb 802.3bt (up to 90W) PoE autosensing ports, 2x 10G SFP+ ports, 1x 320W AC PSU included N3224T-ON IO/PS Airflow, with OS6: 24x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 550W AC PSU included N3224T-ON PS/IO Airflow, with OS6: 24x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 550W AC PSU included N3224T-ON IO/PS Airflow, with OS6: 24x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G QSFP28 ports, 1x 550W AC PSU included N3224F-ON IO/PS Airflow, with OS6: 24x RJ45 10/100/1000Mb 802.3at (up to 30W) PoE autosensing ports, 4x 10G SFP+ ports, 2X 100G QSFP28 ports, 1x 1050W AC PSU included N3224P-ON IO/PS Airflow, with OS6: 24x RJ45 10/100/1000Mb 802.3at (up to 30W) PoE autosensing ports, 4x 10G SFP+ ports, 2X 100G QSFP28 ports, 1x 1050W AC PSU included N324B7E-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G QSFP28 ports, 1x 1500W AC PSU included N3248TE-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G QSFP28 ports, 1x 550W AC PSU included N3248P-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G QSFP28 ports, 1x 550W AC PSU included N3248P-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 25G SFP28 ports, 1x 550W AC PSU included N3248P-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 25G SFP28 ports, 2X 100G QSFP28 ports, 1x 550W AC PSU included N3248P-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 25G SFP28 ports, 2X 100G QSFP28 ports, 1x 550W AC PSU included N3248P-ON IO/PS Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 25G SFP28 ports, 1x 250W AC PSU included N3248P-ON IO/PS Airflow, No-OS: 48x RJ45 10/100/100
Power cords	C15 to NEMA 5-15, 1.8M (N3208PX-ON only) C13 to NEMA 5-15, 3M (all other N3200 platforms) C13 to C14, 2M (all other N3200 platforms)
Power shelves (optional)	 MPS-1S Shelf, External power shelf to hold 1 PSU (any of 1050W AC, 1600W AC, 2000W AC, 1300W DC), Extends PoE budget for N3224PX-ON, N3248P-ON, N3248PXE-ON³ MPS-3S Shelf, External power shelf to hold up to 3 PSUs (any combination of 1050W AC or 1600W AC or 2000W AC PSUs, or up to three 1300W DC PSUs), Extends PoE budget for N3224PX-ON, N3248P-ON, N3248PXE-ON³
Power supplies (optional)	 320W AC external power adapter, adds redundancy and/or extends PoE budget for N3208PX-ON 550W AC hot swappable with IO/PS airflow, adds redundancy to N3224T-ON, N3224F-ON, N3248XE-ON, N3248X-ON 550W AC hot swappable with PS/IO airflow, adds redundancy to N3224T-ON, N3248TE-ON, N3248X-ON 1050W AC hot swappable, adds redundancy and/or extends PoE budget for N3224P-ON, N3248P-ON. Also used with MPS-1S shelf, MPS-3S Shelf 1600W AC hot swappable, adds redundancy and/or extends PoE budget for N3224PX-ON, N3248PXE-ON. Also used with MPS-1S shelf, MPS-3S Shelf 2000W AC hot swappable, extends PoE budget, used with MPS-1S Shelf, MPS-3S Shelf s 550W DC hot swappable with IO/PS airflow, adds redundancy to N3224T-ON, N3224F-ON, N3248TE-ON, N3248X-ON 550W DC hot swappable with PS/IO airflow, adds redundancy to N3224T-ON, N3248TE-ON, N3248X-ON 1300W DC hot swappable, adds redundancy and/or extends PoE budget for N3224P-ON, N3248P-ON, N3248PXE-ON s
Optics, Cables and Cable Management	Please refer to Dell Networking Transceivers and Cables spec sheet for complete list of optics and cables.
Fans (spare)	Fan module, IO to PSU Airflow Fan module, PSU to IO Airflow (for N3224T-ON, N3248TE-ON, N3248X-ON only)

Technical specifications

Hardware specifications

Physical

2 integrated rear 100GbE QSFP28 stacking ports (except N3208PX-ON) Out-of-band management port

(10/100/1000BASE-T)

USB (Type A) port for configuration via USB flash drive

MicroUSB (Type B) console port (MicroUSB to USB connector cable included)

RJ45 console port with RS232 signaling (RJ-45 to female DB-9 connector cable

Auto-negotiation for speed and flow control Auto-MDI/MDIX, port mirroring

Flow-based port mirroring Broadcast storm

Energy-Efficient Ethernet per port settings Redundant variable speed fans

Air flow: I/O to power supply

Power supply:

Integrated 320W (N3208PX-ON), 550W (N3224T-ON, N3224F-ON, N3248TE-ON, N3248X-ON),

1050W (N3224P-ON, N3248P-ON) 1600W (N3224PX-ON, N3248PXE-ON)

Dual firmware images on-board Switching engine model: Store and forward

Chassis

Size (1RU, H x W x D): N3208PX-ON: 1.71 in x 11 in x 12.28 in; All other models: 1.71 in x 17.09 in x 15.75 in (power supply/fan tray handle adds add'l 1.18

Approximate weight (Switch with 1 PSU installed):

8.44lbs/3.83kg (N3208PX-ON), 13.75lbs/6.24kg (N3224T-ON), 14.25lbs/6.46kg (N3224F-ON),

15.6lbs/7.08kg(N3224P-ON), 16lbs/7.26kg (N3224PX-ON.

15.4lbs/6.99kg (N3248TE-ON), 16.7lbs/7.57kg (N3248P-ON),

16.1lbs/7.3kg (N3248X-ON), 17.6lbs/7.98kg (N3248PXE-ON)

2-post rack mounting kit

Environmental

Power supply efficiency: 87% or better in all operating modes

Max. thermal output (BTU/hr):

2821 (N3208PX-ON), 686 (N3224T-ON), 764 (N3224F-ON), 3220 (N3224P-ON), 9344 (N3224PX-ON), 723 (N3248TE-ON), 5719 (N3248P-ON), 1637 (N3248X-ON), 18224 (N3248PXE-ON)

Power consumption max (watts):

900 (N3208PX-ON), 201 (N3224T-ON), 224 (N3224F-ON), 944 (N3224P-ON), 2740 (N3224PX-ON), 212 (N3248TE-ON), 1677 (N3248P-ON), 480 (N3248X-ON), 5344 (N3248PXE-ON)

Operating temperature: 32° to 113°F (0° to 45°C)

Operating relative humidity: 95% Storage temperature: -40° to 158°F

(-40° to 70°C) Storage relative humidity: 95%

Performance

CPU memory: 4GB SSD: 8GB (32GB for N3248TE-ON) Packet buffer memory

8MB (4MB for N3208PX-ON and 32MB for N3248X-ON and N3248PXE-ON)

Switch fabric capacity (full-duplex):

88Gbps (N3208PX-ON),

528Gbps (N3224T-ON, N3224F-ON,

N3224P-ON),

576Gbps (N3248TE-ON, N3248P-ON),

1080Gbps (N3224PX-ON),

1560Gbps (N3248X-ON, N3248PXE-ON) Forwarding rate:

122Mpps (N3208PX-ON).

733Mpps (N3224T-ON, N3224F-ON,

N3224P-ON).

800Mpps (N3248TE-ON, N3248P-ON),

1500Mpps (N3224PX-ON),

2167Mpps (N3248X-ON, N3248PXE-ON) Line-rate Layer 2 switching: All (non-blocking)

Line-rate Layer 3 routing: All (non-blocking)

Network Operating System specifications

Software specifications listed below are applicable for OS6. For detailed specifications of NOS, please contact your Dell Technologies representative.

Scaling performance

MAC addresses: 32K Link aggregation:

128 LAG groups, 144 dynamic ports per

stack, 8 member ports per LAG

Priority queues per port: 8

Static routes: 1,024 (IPv4)/1,024 (IPv6) Dynamic routes: 8,158 (IPv4)/4,096 (IPv6)

OSPF routing interfaces: 8,158 RIP routing interfaces: 512 ECMP next hops per route: 16

ECMP groups: 1024

VLAN routing interfaces: 128 VLANs supported: 4,094

Protocol-based VLANs: Supported Multicast forwarding entries:

1,536 (IPv4), 512 (IPv6) ARP entries: 6,144

NDP entries: 2,560

Access control lists (ACL): Supported MAC and IP-based ACLs: Supported Time-controlled ACLs: Supported Max number of ACLs: 100

Max ACL rules system-wide: 3,914 Max rules per ACL: 1,023

Max ACL rules per interface (IPv4): 1,023 (ingress), 511 (egress) Max ACL rules per interface (IPv6):

1,021 (ingress), 509 (egress) Max VLAN interfaces with ACLs applied: 24

IEEE compliance

802.1AB LLDP Dell Voice VLAN

ISDP Dell 802.1D

Bridging, Spanning Tree Ethernet Priority (User Provisioning 802.1p

and Mapping)

Adjustable WRR and Strict Queue Dell

Scheduling

VLAN Tagging, Double VLAN 802.1Q

Tagging, GVRP

802.1S Multiple Spanning Tree (MSTP) Protocol-based VLANs 802.1v

802.1W Rapid Spanning Tree (RSTP) Dell

RSTP-Per VLAN Dell Spanning tree optional features: STP root guard, BPDU guard, BPDU

802.1X Network Access Control, Auto VLAN

802.2 Logical Link Control

802.3 10BASE-T

802.3ab Gigabit Ethernet (1000BASE-T)

802.3ac Frame Extensions for VLANTagging 802.3ad Link Aggregation with LACP

802.3ae 10 Gigabit Ethernet (10GBASE-X)

PoE (N3224P-ON, N3248P-ON, 802.3at N3208PX-ON, N3224PX-ON,

N3248PXE-ON)

PoE (N3208PX-ON, N3224PX-ON, 802.3bt N3248PXE-ON)

802.3AX LAG Load Balancing Multi-Chassis LAG (MLAG) Dell Dell Policy Based Forwarding 802.3az Energy Efficient Ethernet (EEE)

management ports

802.3x Flow Control 802.3z Gigabit Ethernet (1000BASE-X)

802.3bz 1G/2.5G/5G/10G ANSI LLDP-MED (TIA-1057)

Dell EqualLogic iSCSI Auto-configuration

Fast Ethernet (100BASE-TX) on

MTU 9,216 bytes

802.3u

General Internet protocols

General Internet protocols are supported. For a detailed list, please contact your Dell Technologies representative.

General IPv4 protocols

General IPv4 protocols are supported. For a detailed list, please contact your Dell Technologies representative.

General IPv6 protocols

General IPv6 protocols are supported. For a detailed list, please contact your Dell Technologies representative.

Layer 3 functionality

1058 RIPv1

1724 RIPv2 MIB Extension

1765 OSPF DB overflow

OSPF MIB 1850

2082 RIP-2 MD5 Auth OSPFv2 2328

2338 **VRRP** 2370 Opaque

Policy Based Routing Dell

2453 RIPv2 OSPFv3 2740

VRRP MIB 2787

3101 NSSA

OSPF Stub Router Advert 3137

3623 Graceful Restart

3768 **VRRP**

4271

5187 OSPFv3 Graceful Routing Restart

Multicast

1112 IGMPv1

2236 IGMPv2

2365 Admin scoped IP

2710 MLDv1

2932 IPv4 MIB

2933 **IGMP MIB** 3810 MLD_{v2}

3973 PIM-DM

IGMP v1/v2/v3 Snooping and Querier 4541

5060 5061 PIM MIB

3376 IGMPv3 Dell Static IP Multicast

Draft-ietf-pim-sm-bsr-05 Draft-ietf-idmr-dvmrp-v3-10 DVMRP Draft-ietf-magma-igmp-proxy-06.txt

IGMP/MLD Proxying

Draft-ietf-magma-igmpv3-and-routing-05.txt

draft-ietf-idmr-dvmrp-mib-11 draft-ietf-magma-mgmd-mib-05 draft-ietf-pim-bsr-mib-06

IEEE 802.1ag draft 8.1 - Connectivity Fault Management (CFM)

IEEE 802.1p GMRP Dynamic L2 Multicast Registration

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Technical specifications

2475 [2597	f service DiffServ Field DiffServ Architecture Assured Fwd PHB Port Based QoS Services (TCP/UDP) Mode Red/WRED Flow Based QoS Services Audio Video Bridging Mode (IPv4/IPv6) UDLD srTCM trTCM Vanagement and Security L4 Trusted Mode	2295 2296 2576 2578 2579 2580 2613 2618 2620 2665 2666 2674 2737 2818 2819	Transport Content Negotiation Remote Variant Selection Coexistence between SNMPv1/v2/v3 SMIv2 Textual Conventions for SMIv2 Conformance Statements for SMIv2 RMON MIB RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	5246 TLS v1.2 6101 SSL 6398 IP Router Alert Dell Enterprise MIB supporting routing features draft-ietfhubmib- etherifmib- v3-00.txt (Obsolete RFC 2665) Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other compliance
2475 [2597	DiffServ Architecture Assured Fwd PHB Port Based QoS Services (TCP/UDP) Mode Red/WRED Flow Based QoS Services Audio Video Bridging Mode (IPv4/IPv6) UDLD srTCM trTCM Vanagement and Security	2576 2578 2579 2580 2613 2618 2620 2665 2666 2674 2737 2818	Coexistence between SNMPv1/v2/v3 SMIv2 Textual Conventions for SMIv2 Conformance Statements for SMIv2 RMON MIB RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	6398 IP Router Alert Dell Enterprise MIB supporting routing features draft-ietfhubmib- etherifmib- v3-00.txt (Obsolete RFC 2665) Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
2597	Assured Fwd PHB Port Based QoS Services (TCP/UDP) Mode Red/WRED Flow Based QoS Services Audio Video Bridging Mode (IPv4/ IPv6) UDLD srTCM trTCM Vanagement and Security	2578 2579 2580 2613 2618 2620 2665 2666 2674 2737 2818	SMIv2 Textual Conventions for SMIv2 Conformance Statements for SMIv2 RMON MIB RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	Dell Enterprise MIB supporting routing features draft-ietfhubmib- etherifmib- v3-00.txt (Obsolete RFC 2665) Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell F Dell F Dell F Dell F Dell F Dell L 2697 s 4115 t Network N Dell L 1155 S	Port Based QoS Services (TCP/UDP) Mode Red/WRED Flow Based QoS Services Audio Video Bridging Mode (IPv4/ IPv6) UDLD srTCM trTCM Vanagement and Security	2579 2580 2613 2618 2620 2665 2666 2674 2737 2818	Textual Conventions for SMIv2 Conformance Statements for SMIv2 RMON MIB RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	features draft-ietfhubmib- etherifmib- v3-00.txt (Obsolete RFC 2665) Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell F Dell F Dell F Dell F Dell V 2697 s 4115 t Network N Dell L 1155 S	Mode Red/WRED Flow Based QoS Services Audio Video Bridging Mode (IPv4/ IPv6) UDLD srTCM trTCM Vanagement and Security	2580 2613 2618 2620 2665 2666 2674 2737 2818	Conformance Statements for SMIv2 RMON MIB RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	features draft-ietfhubmib- etherifmib- v3-00.txt (Obsolete RFC 2665) Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell F Dell F Dell F Dell F 1 Dell L 2697 s 4115 t Network N Dell L 1155 \$	Red/WRED Flow Based QoS Services Audio Video Bridging Mode (IPv4/ IPv6) UDLD srTCM trTCM Vanagement and Security	2613 2618 2620 2665 2666 2674 2737 2818	RMON MIB RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	RFC 2665) Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell F Dell	Flow Based QoS Services Audio Video Bridging Mode (IPv4/ IPv6) UDLD srTCM trTCM Vanagement and Security	2618 2620 2665 2666 2674 2737 2818	RADIUS Authentication MIB RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	Other certifications N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell / Pell Pe	Audio Video Bridging Mode (IPv4/IPv6) UDLD srTCM trTCM Vanagement and Security	2620 2665 2666 2674 2737 2818	RADIUS Accounting MIB Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell U 2697 s 4115 t Network N Dell L 1155 S	IPv6) UDLD srTCM trTCM Vanagement and Security	2665 2666 2674 2737 2818	Ethernet-like Interfaces MIB Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	N-Series products have the necessary features to support a PCI compliant network topology. Regulatory, environment and other
Dell L 2697 s 4115 t Network M Dell L 1155 s	UDLĎ srTCM trTCM Vanagement and Security	2666 2674 2737 2818	Identification of Ethernet chipsets Extended Bridge MIB ENTITY MIB HTTP over TLS	to support a PCI compliant network topology. Regulatory, environment and other
2697 s 4115 t Network N Dell L 1155 s	srTCM trTCM Wanagement and Security	2674 2737 2818	Extended Bridge MIB ENTITY MIB HTTP over TLS	Regulatory, environment and other
4115 t Network N Dell L 1155 \$	trTCM Management and Security	2737 2818	ENTITY MIB HTTP over TLS	Regulatory, environment and other
Network N Dell L 1155 S	Management and Security	2818	HTTP over TLS	
Dell L 1155 S				compliance
Dell L 1155 S		2819	D14011111111111111111111111111111111111	
1155	L4 Trusted Mode		RMON MIB (groups 1, 2, 3, 9)	Safety and emissions
		2856	Text Conv. For High Capacity Data	Australia/New Zealand: ACMA RCA Class A
1157 (SMIv1		Types	Canada: ICES Class A; cUL
	SNMPv1	2863	Interfaces MIB	China: CCC Class A; NAL
	Concise MIB Definitions	2865	RADIUS	Europe: CE Class A
	MIB-II	2866	RADIUS Accounting	Japan: VCCI Class A
	SNMP Traps	2868	RADIUS Attributes for Tunnel Prot.	USA: FCC Class A; NRTL UL; FDA 21 CFR
	Bridge MIB	2869	RADIUS Extensions	1040.10 and 1040.11
	SMIv2	3410	Internet Standard Mgmt. Framework	Eurasia Customs Union: EAC Germany: GS
	Manager-to-Manager MIB	3411	SNMP Management Framework	mark
	TACACS+	3412	Message Processing and Dispatching	Product meets EMC and safety standards in
	Managed objects for Bridges MIB	3413	SNMP Applications	many countries inclusive of USA, Canada,
	Evolution of Interfaces	3414	User-based security model	EU, Japan, China. For more country-specific
	DNS Resolver MIB Extensions	3415	View-based control model	regulatory information, and approvals, please
	Ethernet-like MIB	3416	SNMPv2	see your Dell Technologies representative.
	RMON MIB	3417	Transport Mappings	
	HTML/2.0 Forms with file upload	3418	SNMP MIB	RoHS
	extensions	3577	RMON MIB	Product meets RoHS compliance standards in
	Community-based SNMPv2	3580	802.1X with RADIUS	many countries inclusive of USA, EU, China,
	SNMPv2 MIB	3737	Registry of RMON MIB	and India. For more country-specific RoHS
	Coexistence between SNMPv1/v2	4086	Randomness Requirements	compliance information, please see your Dell
	IP MIB TCP MIB	4113	UDP MIB SSHv2 Protocol	Technologies representative.
	UDP MIB	4251 4252		EU WEEE
	HTTP/1.1	4252 4253	SSHv2 Authentication SSHv2 Transport	EU Battery Directive
	IP Forwarding Table MIB	4253 4254	SSHv2 Transport SSHv2 Connection Protocol	REACH
		4254 4419	SSHv2 Connection Protocol SSHv2 Transport Layer Protocol	
	Interfaces Group using SMIv2 TLS v1	44 19 4521	LDAP Extensions	Energy
	SNMP Framework MIB	4521 4716	SECSH Public Key File Format	Japan: JEL
4411 3	SINIVIE FIGHTEWORK WILD	47 10	3E03H Fublic Key File Format	ENERGY STA

4 Excludes N3208PX-ON

IT Lifecycle Services for Networking

Experts, insights and ease

Our highly trained experts, with innovative tools and proven processes, help you transform your IT investments into strategic advantages.



Plan & Design

Let us analyze your multivendor environment and deliver a comprehensive report and action plan to build upon the existing network and improve performance.



Deploy & Integrate

Get new wired or wireless network technology installed and configured with ProDeploy. Reduce costs, save time, and get up and running fast.



Educate

Ensure your staff builds the right skills for longterm success. Get certified on Dell Networking technology and learn how to increase performance and optimize infrastructure.



Manage & Support

Gain access to technical experts and quickly resolve multivendor networking challenges with ProSupport. Spend less time resolving network issues and more time innovating.



Optimize

Maximize performance for dynamic IT environments with Dell Optimize. Benefit from in-depth predictive analysis, remote monitoring and a dedicated systems analyst for your network.



Retire

We can help you resell or retire excess hardware while meeting local regulatory guidelines and acting in an environmentally responsible way.

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