

N3200 SPEC SHEET



DELL EMC 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.

Leverage familiar tools and practices

All N-Series switches include Dell EMC Networking 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 EMC 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 EMC 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 EMC 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 autosensing ports, 4x 10M/100M/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 N3224P-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 N3224P-ON IO/PS Airflow, with OS6: 24x RJ45 10/100/1000Mb 802.3at (up to 30W) PoE auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 1050W AC PSU included N3224P-ON IO/PS Airflow, with OS6: 24x RJ45 10/100/1000Mb 802.3at (up to 30W) PoE auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 1050W AC PSU included N3248TE-ON IO/PS Airflow, with OS6: 24x RJ45 10M/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 1000/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 1000/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 100/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 100/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 25G SFP28 ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 25G SFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2X 100G GSFP28 ports, 1x 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ po
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-ON ³ 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-ON ³

Product	Description
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, N3248TE-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 ³ 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, N3248PX-ON
Optics	Transceiver, SFP, 1000BASE-T ⁴ Transceiver, SFP, 1000BASE-SX ⁴ Transceiver, SFP, 1000BASE-LX ⁴ Transceiver, SFP, 1000BASE-ZX ⁴ Transceiver, SFP, 1000BASE-ZX ⁴ Transceiver, SFP+ 10GbE, USR (MMF upto 100m) ⁵ Transceiver, SFP+ 10GbE, SR (MMF upto 400m) ⁵ Transceiver, SFP+ 10GbE, LRM (MMF 220m) 5, for SFP+ ports only Transceiver, SFP+ 10GbE, LR (SMF 10 km) ⁵ Transceiver, SFP+ 10GbE, ER SMF 40 km) ⁵ Transceiver, SFP+ 10GbE, ZR (SMF 80 km) ⁵ Transceiver, SFP+ 10GbE, BASE-T GEN2 ⁵ Transceiver, SFP28 25GbE, LR Transceiver, SFP28 25GbE, SR-NOF Transceiver, SFP28 25GbE, ESR Transceiver, GSFP28 100GbE, Q28-100G-SR4-HG Transceiver, QSFP28 100GbE, Q28-100G-LR4-G3
Cables	10GbE, SFP+ to SFP+, Passive DAC (0.5M, 1M, 2M, 3M, 5M, 7M) ⁵ 10GbE, SFP+ to SFP+, Active optical (2M, 3M, 5M, 7M, 10M,15M, 20M) ⁵ 25GbE, SFP28 to SFP28, Passive DAC (1M, 2M, 3M, 5M) 25GbE, SFP28 to SFP28, Active optical (7M, 10M,15M, 20M) 100GbE, QSFP28 to QSFP28, Passive DAC (0.5M, 1M, 2M, 3M, 5M)
Fans (spare)	Fan module, IO to PSU Airflow Fan module, PSU to IO Airflow (for N3224T-ON, N3248TE-ON, N3248X-ON only)

³ Planned in Roadmap
4 Auto-negotiation not supported, using 1G optics require manual configuration and all 4x10G SFP+ or 4x25G SFP28 ports to be set to same speed. 100M speed not supported.
5 Auto-negotiation not supported, using 10G cables or optics require manual configuration and all 4x25G SFP28 ports to be set to same speed. 100M/1G speed not supported.

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Hardware specifications Physical		bps (N3224PX-ON), hps (N3248X-ON N3248PXF-ON)	802.3bt	N3248PXE-ON) PoE (N3208PX-ON, N3224PX-ON,	
2 integrated rear 100GbE QSFP28 stacking ports	1560Gbps (N3248X-ON, N3248PXE-ON) Forwarding rate:		002.300	N3248PXE-ON)	
(except N3208PX-ON)		pps (N3208PX-ON),	802.3AX	LAG Load Balancing	
Out-of-band management port		pps (N3224T-ON, N3224F-ON, N3224P-ON),	Dell	Multi-Chassis LAG (MLAG)	
(10/100/1000BASE-T)	800M	ops (N3248TE-ON, N3248P-ON),	Dell	Policy Based Forwarding	
USB (Type A) port for configuration via USB flash		1pps (N3224PX-ON),	802.3az	Energy Efficient Ethernet (EEE)	
drive	2167Mpps (N3248X-ON, N3248PXE-ON)		802.3u	Fast Ethernet (100BASE-TX) on	
MicroUSB (Type B) console port (MicroUSB to		Layer 2 switching: All (non-blocking)	000 7.4	management ports	
USB connector cable included) RJ45 console port with RS232 signaling (RJ-45 to	Line-rate	Layer 3 routing: All (non-blocking)	802.3x 802.3z	Flow Control Gigabit Ethernet (1000BASE-X)	
female DB-9 connector cable included)	Network Operating System specifications				
Auto-negotiation for speed and flow control		specifications listed below are	802.3bz ANSI LLI	DP-MED (TIA-1057)	
Auto-MDI/MDIX, port mirroring		e for OS6. For detailed specifications	Dell	EqualLogic iSCSI Auto-configuration	
Flow-based port mirroring Broadcast storm control		olease contact your Dell Technologies	MTU 9,2	16 bytes	
Energy-Efficient Ethernet per port settings	represent		General Internet protocols		
Redundant variable speed fans		performance	General Internet protocols are supported. For a		
Air flow: I/O to power supply Power supply:	Link aggr	lresses: 32K	detailed list, please contact your Dell Technologies representative.		
Integrated 320W (N3208PX-ON),		G groups, 144 dynamic ports per stack,	General IPv4 protocols		
550W (N3224T-ON, N3224F-ON,		nber ports per LAG	General IPv4 protocols are supported. For a		
N3248TE-ON, N3248X-ON),		ueues per port: 8	detailed list, please contact your Dell Technologies		
1050W (N3224P-ON, N3248P-ON),	Static rol	ites: 1,024 (IPv4)/1,024 (IPv6)	representative.		
1600W (N3224PX-ON, N3248PXE-ON)	Dynamic routes: 8,158 (IPv4)/4,096 (IPv6)			General IPv6 protocols	
Dual firmware images on-board		uting interfaces: 8,158	General IPv6 protocols are supported. For a		
Switching engine model: Store and forward Chassis		ng interfaces: 512 ext hops per route: 16	detailed list, please contact your Dell Technologies representative.		
Size (1RU, H x W x D):		oups: 1024		functionality	
N3208PX-ON: 1.71 in x 11 in x 12.28 in;		uting interfaces: 128	1058	RIPv1	
All other models: 1.71 in x 17.09 in x 15.75 in	VLANs s	upported: 4,094	1724	RIPv2 MIB Extension	
(power supply/fan tray handle adds add'l 1.18 in)		based VLANs: Supported	1765	OSPF DB overflow	
Approximate weight (Switch with 1 PSU installed):		forwarding entries:	1850	OSPF MIB	
8.44lbs/3.83kg (N3208PX-ON),		(IPv4), 512 (IPv6)	2082	RIP-2 MD5 Auth	
13.75lbs/6.24kg (N3224T-ON), 14.25lbs/6.46kg (N3224F-ON),	ARP entr	ies: 0,144 ries: 2,560	2328 2338	OSPFv2 VRRP	
15.6lbs/7.08kg(N3224P-ON),		ontrol lists (ACL): Supported	2370	Opaque	
16lbs/7.26kg (N3224PX-ON,		I IP-based ACLs: Supported	Dell	Policy Based Routing	
15.4lbs/6.99kg (N3248TE-ON),		ntrolled ACLs: Supported	2453	RIPv2	
16.7lbs/7.57kg (N3248P-ON),		ber of ACLs: 100	2740	OSPFv3	
16.1lbs/7.3kg (N3248X-ON),		rules system-wide: 3,914	2787	VRRP MIB	
17.6lbs/7.98kg (N3248PXE-ON)		s per ACL: 1,023	3101	NSSA	
2-post rack mounting kit Environmental		rules per interface (IPv4): (ingress), 511 (egress)	3137 3623	OSPF Stub Router Advert Graceful Restart	
Power supply efficiency: 90% or better in all		rules per interface (IPv6):	3768	VRRP	
operating modes		ingress), 509 (egress)	4271	BGP	
Max. thermal output (BTU/hr):		N interfaces with ACLs applied: 24	5187	OSPFv3 Graceful Routing Restart	
2821 (N3208PX-ON), 686 (N3224T-ON),	IEEE cor		Multicas		
764 (N3224F-ON), 3220 (N3224P-ON),	802.1AB		1112	IGMPv1	
9344 (N3224PX-ON), 723 (N3248TE-ON), 5719 (N3248P-ON), 1637 (N3248X-ON),	Dell Dell	Voice VLAN ISDP	2236 2365	IGMPv2 Admin scoped IP	
18224 (N3248PXE-ON)	802.1D	Bridging, Spanning Tree	2710	MLDv1	
Power consumption max (watts):	802.1p	Ethernet Priority (User Provisioning and	2932	IPv4 MIB	
827 (N3208PX-ON), 201 (N3224T-ON),		Mapping)	2933	IGMP MIB	
224 (N3224F-ON), 944 (N3224P-ON),	Dell	Adjustable WRR and Strict Queue	3810	MLDv2	
2740 (N3224PX-ON), 212 (N3248TE-ON),	00040	Scheduling	3973	PIM-DM	
1677 (N3248P-ON), 480 (N3248X-ON), 5344 (N3248PXE-ON)	802.1Q	VLAN Tagging, Double VLAN Tagging, GVRP	4541 5060	IGMP v1/v2/v3 Snooping and Querier PIM MIB	
Operating temperature: 32° to 113°F (0° to 45°C)	802.1S	Multiple Spanning Tree (MSTP)	5060	PIM MIB	
Operating relative humidity: 95%	802.1v	Protocol-based VLANs	3376	IGMPv3	
Storage temperature: -40° to 158°F	802.1W	Rapid Spanning Tree (RSTP)	Dell	Static IP Multicast	
(-40° to 70°C)	Dell	RSTP-Per VLAN	Draft-iet	f-pim-sm-bsr-05	
Storage relative humidity: 95%	Dell	Spanning tree optional features: STP		f-idmr-dvmrp-v3-10 DVMRP	
Performance	802.1X	root guard, BPDU guard, BPDU filtering		f-magma-igmp-proxy-06.txt LD Proxying	
CPU memory: 4GB SSD: 8GB (32GB for N3248TE-ON)	802.1	Network Access Control, Auto VLAN Logical Link Control		f-magma-igmpv3-and-routing-05.txt	
Packet buffer memory:	802.3	10BASE-T		i-idmr-dvmrp-mib-11	
8MB (4MB for N3208PX-ON and 32MB for	802.3ab	Gigabit Ethernet (1000BASE-T)		-magma-mgmd-mib-05	
N3248X-ON and N3248PXE-ON)	802.3ac	Frame Extensions for VLANTagging	draft-ietf	-pim-bsr-mib-06	
Switch fabric capacity (full-duplex):	802.3ad	Link Aggregation with LACP		2.1ag draft 8.1 – Connectivity Fault	
88Gbps (N3208PX-ON),	802.3ae	10 Gigabit Ethernet (10GBASE-X)		gement (CFM)	
528Gbps (N3224T-ON, N3224F-ON, N3224P-ON), 576Gbps (N3248TE-ON, N3248P-ON),	802.3at	PoE (N3224P-ON, N3248P-ON, N3208PX-ON, N3224PX-ON,	Regist	2.1p GMRP Dynamic L2 Multicast	
0,000pg (1902-1011-019,190240F-019),		INOCOULATION, INOCCALATION,	regist	i deloi I	

Quality of service		3410	Internet Standard Mgmt. Framework			
2474	DiffServ Field	3411	SNMP Management Framework			
2475	DiffServ Architecture	3412	Message Processing and Dispatching			
2597	Assured Fwd PHB	3413	SNMP Applications			
Dell	Port Based QoS Services (TCP/UDP)	3414	User-based security model			
Dall	Mode Pod (MDED	3415	View-based control model			
Dell	Red/WRED	3416	SNMPv2			
Dell Dell	Flow Based QoS Services Audio Video Bridging Mode (IPv4/IPv6)	3417	Transport Mappings			
Dell	UDLD	3418	SNMP MIB			
2697	srTCM	3577	RMON MIB			
4115	trTCM	3580	802.1X with RADIUS			
Network Management and Security		3737	Registry of RMON MIB			
Dell	L4 Trusted Mode	4086	Randomness Requirements			
1155	SMIv1	4113	UDP MIB			
1157	SNMPv1	4251	SSHv2 Protocol			
1212	Concise MIB Definitions	4252	SSHv2 Authentication			
1213	MIB-II	4253	SSHv2 Transport			
1215	SNMP Traps	4254	SSHv2 Connection Protocol			
1286	Bridge MIB	4419	SSHv2 Transport Layer Protocol			
1442	SMIv2	4521	LDAP Extensions			
1451	Manager-to-Manager MIB	4716	SECSH Public Key File Format			
1492	TACACS+	5246	TLS v1.2			
1493 1573	Managed objects for Bridges MIB Evolution of Interfaces	6101	SSL			
1612	DNS Resolver MIB Extensions	6398	IP Router Alert			
1643	Ethernet-like MIB	Dell				
1757	RMON MIB	Dell	Enterprise MIB supporting routing features			
1867	HTML/2.0 Forms with file upload	draft int	fhubmib- etherifmib- v3-00.txt (Obsoletes			
	extensions	RFC 266				
1901	Community-based SNMPv2	Other certifications				
1907	SNMPv2 MIB	N-Series products have the necessary features to				
1908	Coexistence between SNMPv1/v2		a PCI compliant network topology.			
2011	IP MIB	оарро. с	a revenue ne memer tepelogy.			
2012	TCP MIB	Regulat	ory, environment and other			
2013 2068	UDP MIB HTTP/1.1	compliance				
2006	IP Forwarding Table MIB		and emissions			
2233	Interfaces Group using SMIv2	-	/New Zealand: ACMA RCA Class A			
2246	TLS v1	Canada: ICES Class A; cUL				
2271	SNMP Framework MIB		China: CCC Class A; NAL			
2295	Transport Content Negotiation		Europe: CE Class A			
2296	Remote Variant Selection					
2576	Coexistence between SNMPv1/v2/v3		Japan: VCCI Class A USA: FCC Class A; NRTL UL; FDA 21 CFR			
2578	SMIv2		1040.10 and 1040.11			
2579	Textual Conventions for SMIv2		Customs Union: EAC Germany: GS mark			
2580	Conformance Statements for SMIv2 RMON MIB		meets EMC and safety standards in			
2613 2618	RADIUS Authentication MIB		countries inclusive of USA, Canada, EU,			
2620	RADIUS Accounting MIB		China. For more country-specific regulatory			
2665	Ethernet-like Interfaces MIB		information, and approvals, please see your Dell			
2666	Identification of Ethernet chipsets		Technologies representative.			
2674	Extended Bridge MIB	RoHS	<u> </u>			
2737	ENTITY MIB	Product	meets RoHS compliance standards in many			
2818	HTTP over TLS	countries inclusive of USA, EU, China, and India. For				
2819	RMON MIB (groups 1, 2, 3, 9)		untry-specific RoHS compliance information,			
2856	Text Conv. For High Capacity Data Types		ee your Dell Technologies representative.			
2863	Interfaces MIB	EU WEE				
2865	RADIUS		ery Directive			
2866 2868	RADIUS Accounting RADIUS Attributes for Tunnel Prot.	REACH				
2869	RADIUS Extensions	Energy				
2000	TO IDIOO EXIGINION	Japan: J	EL			



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