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

Dell PowerSwitch N3200-ON Series Switches

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

Dell PowerSwitch N3200-ON Spec Sheet
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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
- MACsec support in N3248PXE-ON hardware only

² Can be used if enabled by ON partner network operating system.
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<td>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</td>
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<tr>
<td>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</td>
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<tr>
<td>N3224T-ON PS/IO Airflow, with OS6: 24x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included</td>
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<td>N3224F-ON IO/PS Airflow, with OS6: 24x RJ45 10G 802.3at (up to 30W) PoE auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included</td>
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<tr>
<td>N3224PX-ON IO/PS Airflow, with OS6: 24x RJ45 10M/100M/1G/2.5G/5G 802.3bt (up to 90W) PoE auto-sensing ports, 4x 25G SFP28 ports, 2x 100G QSFP28 ports, 1x 1600W AC PSU included</td>
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<td>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</td>
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<td>N3248TE-ON PS/IO Airflow, with OS6: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included</td>
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<td><strong>NO-OS Options (no pre-installed NOS, recommended for use with Enterprise SONIC Distribution by Dell Technologies)</strong></td>
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<tr>
<td>N3248TE-ON IO/PS Airflow, NO-OS: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included</td>
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<tr>
<td>N3248TE-ON PS/IO Airflow, NO-OS: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 2x 100G QSFP28 ports, 1x 550W AC PSU included</td>
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<td><strong>OS10 Options (with pre-installed OS10 NOS)</strong></td>
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<td>N3248TE-ON IO/PS Airflow, with OS10: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 1x 550W AC PSU included</td>
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<tr>
<td>N3248TE-ON PS/IO Airflow, with OS10: 48x RJ45 10/100/1000Mb auto-sensing ports, 4x 10G SFP+ ports, 1x 550W AC PSU included</td>
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<td><strong>Power shelves (optional)</strong></td>
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<tr>
<td>MPS-1S Shelf, External power shelf to hold 1 PSU (any of 1050W AC, 1600W AC, 2000W AC, 13000W DC), Extends PoE budget for N3224PX-ON, N3248P-ON, N3248PXE-ON³</td>
<td></td>
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<tr>
<td>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 13000W DC PSUs), Extends PoE budget for N3224PX-ON, N3248P-ON, N3248PXE-ON³</td>
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<td><strong>Power supplies (optional)</strong></td>
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<td>320W AC external power adapter, adds redundancy and/or extends PoE budget for N3208PX-ON</td>
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<tr>
<td>550W AC hot swappable with IO/PS airflow, adds redundancy to N3224T-ON, N3224F-ON, N3248TE-ON, N3248X-ON</td>
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<tr>
<td>550W AC hot swappable with PS/IO airflow, adds redundancy to N3224T-ON, N3248TE-ON, N3248X-ON</td>
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<td>1050W AC hot swappable, adds redundancy and/or extends PoE budget for N3224P-ON, N3248TE-ON, N3248PXE-ON³</td>
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<tr>
<td>1600W AC hot swappable, adds redundancy and/or extends PoE budget for N3224PX-ON, N3248PXE-ON³</td>
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<tr>
<td>2000W AC hot swappable, extends PoE budget, used with MPS-1S shelf, MPS-3S Shelf³</td>
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<tr>
<td>550W DC hot swappable with IO/PS airflow, adds redundancy to N3224T-ON, N3224F-ON, N3248TE-ON, N3248X-ON</td>
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<tr>
<td>550W DC hot swappable with PS/IO airflow, adds redundancy to N3224T-ON, N3248TE-ON, N3248X-ON</td>
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<tr>
<td>1300W DC hot swappable, adds redundancy and/or extends PoE budget for N3224P-ON, N3248P-ON, N3248PXE-ON³</td>
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<tr>
<td><strong>Optics, Cables and Cable Management</strong></td>
<td>Please refer to <a href="#">Dell Networking Transceivers and Cables spec sheet</a> for complete list of optics and cables.</td>
</tr>
<tr>
<td><strong>Fans (spare)</strong></td>
<td>Fan module, IO to PSU Airflow, Fan module, PSU to IO Airflow (for N3224T-ON, N3248TE-ON, N3248X-ON only)</td>
</tr>
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</table>
### Technical specifications

#### Hardware specifications

**Physical**
- 2 integrated rear 100GbE QSFP28 stacking ports (except N3208PX-ON)
- Out-of-band management port
- USB (Type A) port for configuration via USB flash drive
- RJ45 console port with RS232 signaling
- Auto-negotiation for speed and flow control
- Auto-MDI/MDIX, port mirroring
- Flow-based port mirroring
- Broadcast storm control
- Energy-Efficient Ethernet per port settings
- Redundant variable speed fans
- Air flow: I/O to power supply
- Power supply efficiency: 87% or better in all representative.

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

**Performance**
- CPU memory: 4GB
- SSD: 8GB (32GB for N3248TE-ON)
- Packet buffer memory:
  - 8MB (4MB for N3208PX-ON and 32MB for N3248X-ON and N3248PX-ON)

#### Switching engine model:
- Store and forward
- 4-port rack mounting kit
- 2167Mpps (N3248X-ON, N3248PXE-ON)
- 2500Mpps (N3224PX-ON), 900Mpps (N3208PX-ON)

#### Power consumption max (watts):
- 182W (N3224PXE-ON)
- 1247W (N3248PXE-ON)
- 1111W (N3248P-ON)
- 1017W (N3248X-ON)
- 896W (N3224P-ON)
- 875W (N3248TE-ON)
- 723W (N3224F-ON)
- 764W (N3248TE-ON)

#### Max. thermal output (BTU/hr):
- 1820 BTU/hr (N3224PXE-ON)
- 1269 BTU/hr (N3248PXE-ON)
- 1153 BTU/hr (N3248P-ON)
- 1092 BTU/hr (N3248X-ON)
- 937 BTU/hr (N3224F-ON)
- 902 BTU/hr (N3248TE-ON)
- 764 BTU/hr (N3248PX-ON)

#### Approximate weight (Switch with 1 PSU installed):
- 17.6 lbs/7.98 kg (N3248PXE-ON)
- 16.1 lbs/7.3 kg (N3248X-ON)
- 16.1 lbs/7.57 kg (N3248P-ON)
- 15.4 lbs/6.99 kg (N3248TE-ON)
- 15.6 lbs/7.08 kg (N3224P-ON)
- 14.25 lbs/6.46 kg (N3224F-ON)
- 8.44 lbs/3.83 kg (N3208PX-ON)

#### Size (1RU, H x W x D):
- N3208PX-ON: 1.71 in x 11 in x 12.28 in
- N3248PX-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

#### Environmental
- Power supply efficiency: 87% or better in all representative.
- Power supply:
  - Integrated 320W (N3208PX-ON), 550W (N3224T-ON, N3224F-ON, N3248TE-ON, N3248X-ON), 1050W (N3224P-ON, N3248P-ON), 1600W (N3224PX-ON, N3248PX-ON)
- Dual firmware images on-board
- Switching engine model: Store and forward
- 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 (N3248TE-ON)
  - 16lbs/7.26kg (N3248PX-ON)
  - 15.4lbs/6.99kg (N3248PE-ON)
  - 16.1lbs/7.57kg (N3248P-ON)
  - 16.1lbs/7.3kg (N3248X-ON)
  - 17.6lbs/7.96kg (N3248PX-ON)

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

#### Scalling performance
- MAC addresses: 32K
- Link aggregation:
  - 128 LAG groups, 144 dynamic ports per stack, 8 member ports per LAG
- Static routes: 1,024 (IPv4)/1,024 (IPv6)
- Dynamic routes: 8,158 (IPv4)/4,096 (IPv6)
- OSI RSVP 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: 1,036 (IPv4), 512 (IPv6)
- ARP entries: 6,144
- ND 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), 509 (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
- Dell ISDP
- 802.1D Bridging, Spanning Tree
- 802.1p Ethernet Priority (User Provisioning and Mapping)
- Dell Adjustable WRR and Strict Queue Scheduling
- 802.1Q VLAN Tagging, Double VLAN Tagging, GVRP
- 802.1S Multiple Spanning Tree (MSTP)
- 802.1v Protocol-based VLANs
- 802.1W Rapid Spanning Tree (RSTP)
- Dell RSTP-Per VLAN
- Dell Spanning tree optional features: STP root guard, BPDUs guard, BPDUs filtering
- 802.1X Network Access Control, Auto VLAN
- 802.2 Logical Link Control
- 802.3ab Gigabit Ethernet (1000BASE-T)
- 802.3ac Frame Extensions for VLAN Tagging
- 802.3ad Link Aggregation with LACP
- 802.3ae 10 Gigabit Ethernet (10GBase-X)
- 802.3at PoE (N3224P-ON, N3248P-ON, N3208PX-ON, N3248PX-ON, N3248PX-ON)
- 802.3bt PoE (N3208PX-ON, N3248PX-ON, N3248PX-ON)
- 802.3AX LLAG Load Balancing
- Dell Multi-Chassis LAG (MLAG)
- Dell Policy Based Forwarding
- Dell EqualLogic iSCSI Auto-configuration
- MTU 9,216 bytes

### 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
- 1850 OSPF MIB
- 2082 RIP-2 MD5 Auth
- 2328 OSPFv2
- 2338 VRRP
- 2370 Opaque
- Dell Policy Based Routing
- 2453 RIPv2
- 2740 OSPFv3
- 2787 VRRP MIB
- 3101 NSSA
- 3137 OSPF Stub Router Advert
- 3623 Graceful Restart
- 3768 VRRP
- 4271 BGP
- 5187 OSPFv3 Graceful Routing Restart

### Multicast
- 1112 IGMPv1
- 2236 IGMPv2
- 2365 Admin scoped IP
- 2710 MLDb1
- 2932 IPv4 MIB
- 2933 IPv4 MIB
- 3810 MLDb2
- 3973 PIM-DM
- 4541 IGMP v1/v2/v3 Snooping and Querier
- 5060 PIM MIB
- 5061 PIM MIB
- 3768 VRRP
- 5187 OSPFv3 Graceful Routing Restart
- Dell Static IP Multicast
- Draft-ietf-pim-sm-brs-05
- Draft-ietf-idmr-dvmrp-06
- Dell Policy Based Routing
- 4541 IGMP v1/v2/v3 Snooping and Querier
- 5060 PIM MIB
- 5061 PIM MIB
- 3768 VRRP
- Dell Static IP Multicast
- 5187 OSPFv3 Graceful Routing Restart
- Dell Policy Based Routing
- 4541 IGMP v1/v2/v3 Snooping and Querier
- 5060 PIM MIB
- 5061 PIM MIB
- 3768 VRRP
- Dell Static IP Multicast
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4 Excludes N3208PX-ON
IT Lifecycle Services for Networking

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