The N1108EP-ON switch offers a power-efficient Gigabit Ethernet (GbE) network-access switching solution with integrated 1GbE uplinks. The switch supports flexible power options such as PoE pass-through or an external power adapter or both to provide power redundancy to the switch. The switch comes with high-performance capabilities and wire-speed performance, utilizing a non-blocking architecture to easily handle unexpected traffic loads. Fanless operation and features such as Energy-Efficient Ethernet and short cable detection provide energy efficiency to help decrease power and cooling costs.

Modernize campus network architectures

Modernize campus network architectures with a power-efficient and resilient 1GbE switching solution with up to 8 PoE/PoE+ ports. PoE power budgets up to 137W delivering clean power to network devices such as wireless access points (APs), voice over-IP (VoIP) handsets, video conferencing systems and security cameras.

Leverage familiar tools and practices

N1108EP-ON switch includes Dell EMC Networking OS6, designed for easier deployment, greater interoperability and a lower learning curve for network administrators. One common command line interface (CLI) and graphic user interface (GUI) using a well-known command language gets skilled network administrators productive quickly. The N1108EP-ON switch also supports the Open Network Install Environment (ONIE), enabling installation of alternate network operating systems.

Deploy with confidence

N1108EP-ON switch helps create performance assurance with a data rate up to 24Gbps (full duplex) and a forwarding rate up to 18Mpps. N1108EP-ON switch provides certainty with a lifetime warranty* that covers software upgrades, hardware repair or replacement, and optics and cables purchased with the switch.

Hardware, performance and efficiency

- Up to 10 line-rate GbE RJ45 ports and two integrated 1GbE SFP ports
- Up to 8 PoE/PoE+
- PoE pass-through to power the switch as well as PoE end devices (switch draws power from an uplink PoE device without needing a dedicated power supply)
- External power adapter
- Power redundancy between PoE pass-through and external power adapter
- 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
- Fresh Air compliance for operation in environments up to 113°F (45°C) helps reduce cooling costs in temperature-constrained deployments

*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. For details, visit https://www.dell.com/en-us/work/shop/networkingwarranty/cp/networkingwarranty.
Deploying, configuring and managing

- USB auto-configuration rapidly deploys the switch without setting up 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
- Remote Switch Port Analyzer (RSPAN) monitors ports across a Layer 2 domain without costly dedicated network taps

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1108EP-ON series</td>
<td>8x 10/100/1000Mbps half/full duplex ports, 2x GbE RJ45 and 2x GbE SFP interfaces, 8xPoE/PoE+, 137W PoE power budget RJ45, FastPoE, Perpetual PoE, 1 RU half-width, fanless operation</td>
</tr>
<tr>
<td>Power cords</td>
<td>C13 to NEMA 5-15, 3M C13 to C14, 2M</td>
</tr>
<tr>
<td>Optics (optional)</td>
<td>Transceiver, SFP, 1000BASE-T Transceiver, SFP, 1000BASE-SX, 850nm wavelength, up to 550m reach Transceiver, SFP, 1000BASE-LX, 1310nm wavelength, up to 10km reach Transceiver, SFP, 1000BASE-ZX, 1550nm wavelength, up to 80km reach</td>
</tr>
</tbody>
</table>

### Technical specifications

**Physical**

- 8x 1GbE RJ-45 ports with 802.3at PoE
- 2x 1GbE RJ-45 uplink ports with PoE pass through capability
- 2x 1GbE SFP ports
- USB (Type A) port for configuration via USB flash drive
- 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
- PoE pass through using 2x1GbE RJ-45 uplinks
- External power adapter: 280W
- PoE power budgets: 25W with one 60W PoE uplink, 75W with two 60W PoE uplink, and up to 137W with external power adapter
- Micro USB Console port (Micro USB to USB cable included)
- Dual firmware images on-board
- Switching engine model: Store and forward;

**Chassis**

- Size (H x W x D) in inches: 1.62 x 8.23 x 9.84
- 280W External Power Adapter: 1.69x3.94x7.87
- Approximate weight: 4lbs, 1.81kg
- 280W External Power Adapter: 2.0lbs, 0.91kg
- Rack mounting kit with 2 mounting brackets, bolts and cage nuts
- 1RU tray to accommodate two half rack width switches (kit includes L-brackets for 800mm deep rack/ cabinet)

**Environmental**

- Power supply efficiency: 80% or better in all operating modes
- Max. thermal output (BTU/hr): 66.53
- Power consumption max (watts): 19.51

**Operating modes**

- 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 (compatible with Cisco’s RPVST+)

**IEEE compliance**

- 802.1AB LLDP
- Dell Voice VLAN
- Dell ISDP (inter-operates with devices running CDP)
- 802.1D Bridging, Spanning Tree

**Optics (optional)**

- Transceiver, SFP, 1000BASE-T
- Transceiver, SFP, 1000BASE-SX, 850nm wavelength, up to 550m reach
- Transceiver, SFP, 1000BASE-LX, 1310nm wavelength, up to 10km reach
- Transceiver, SFP, 1000BASE-ZX, 1550nm wavelength, up to 80km reach

**RFC compliance and additional features**

**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.

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

Multicast
2932  IPv4 MIB
4541  IGMP v1/v2/v3 Snooping and Querier
IEEE 802.1ag draft 8.1–Connectivity Fault Management

Quality of service
2474  DiffServ Field
2475  DiffServ Architecture
2597  Assured Fwd PHB
2598  Experiment PHB
2632  QoS Policies
2674  Extended Bridge MIB

Network Management and Security
1155  SMIv1
1156  SMIv2
1212  Concise MIB Definitions
1213  MIB-II
1214  SMIv2
1451  Manager-to-Manager MIB
1493  Managed Objects for Bridges MIB
1573  Evolution of Interfaces
1612  DNS Resolver MIB Extensions
1643  Ethernet-like MIB
1757  RMON MIB
1867  HTML/2.0 Forms with File Upload Extensions
1901  Community-based SNMPv2
1907  SNMPv2 MIB
1908  Coexistence Between SNMPv1/v2
2011 IP MIB
2012 TCP MIB
2013 UDP MIB
2068 HTTP/1.1
2096 IP Forwarding Table MIB
2233 Interfaces Group using SMIv2
2246 TLS v1

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Dell Custom Login Banners
Dell IP Address Filtering
Dell Tiered Authentication
Dell RSPAN
Dell Python Scripting
Dell Support Assist

Regulatory, environment and other compliance

Safety and emissions
Australia/New Zealand: ACMA RCM Class A
Canada: ICES Class A; cUL
China: CCC Class A; NAL
Europe: CE Class A
Japan: VCCI Class A
USA: FCC Class A; NRTL UL; FDA 21 CFR 1040.10 and 1040.11
Eurasia Customs Union: EAC
Germany: GS mark

Immunity
EN 61000-4-5: Surge

RoHS
Product meets RoHS compliance standards in many countries inclusive of USA, Canada, EU, Japan, China. For more country-specific regulatory information and approvals, please see your Dell Technologies representative.

EU WEEE
EU Battery Directive
REACH

Energy
Japan: JEL
Certifications (available or coming soon)
Available with US Trade Agreements Act (TAA) compliance.
N-Series products have the necessary features to support a PCI-compliant network topology.
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 long-term success. Get certified on Dell EMC 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 EMC 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.

Learn more at DellTechnologies.com/Services