

# 16 10/100/1000Mbps Port Gigabit L2 Web-Smart Managed Switch, 2 SFP Slots, 36 Gbps, Web, 8-Outlet 120V PDU/Surge Protect

MODEL NUMBER: **NSS-G16D2**



Combines a Web-Smart 16-port Gigabit network switch with a basic PDU/surge protector in one 1U rack-mount unit. Ideal for monitoring and controlling an LAN and powering equipment in a small-to-medium distributed network.

## Description

The energy-efficient NSS-G16D2 16-Port Gigabit L2 Web-Smart Managed Switch does more than complete your home or office LAN. It also features a basic 120V 15A PDU to distribute reliable AC power to critical IT equipment in your wiring closet, server room or equipment rack. Two dedicated mini-GBIC SFP ports are also included for uplinking data to other switches via optical fiber or copper.

This switch features 16 twisted-pair RJ45 Gigabit Ethernet ports that support auto-negotiable 10/100/1000 Mbps and auto MDI/MDIX cross-over detection functions for convenient plug-and-play capability. Easy-to-read LEDs indicate connection and activity status for each port. Built-in management software lets you monitor and control each connected device via secure web-based interface. Each port supports up to 2 Gbps with full duplex.

The rear panel contains eight NEMA 5-15R outlets that supply continuous power to connected devices. Your equipment is protected by 3860 joules of surge suppression, as well as front-panel LEDs that let you monitor line status at a glance. A 12A circuit breaker trips if the current drawn by connected equipment exceeds the PDU's maximum load rating.

The NSS-G16D2 supports IEEE802.3az Energy Efficient Ethernet standards. The heavy-duty metal housing mounts into 1U of an EIA-standard 19-inch rack using the included hardware. The six-foot input cord with NEMA 5-15P plug connects to a protected UPS, generator or mains input AC source.

## Features

**Enterprise Managed Network Switch** 16 twisted-pair RJ45 Gigabit Ethernet ports Auto-negotiable 10/100/1000 Mbps Automatic MDI/MDIX cross-over detection 36 Gbps switching capacity (2 Gbps per port with full duplex) Easy-to-read LEDs indicate connection and activity status for each port Supports 10k jumbo frames Supports MAC address auto-learning and auto-aging up to 16,000 addresses Advanced Enterprise level, L2 management features

**Advanced Network Monitoring** Built-in Ethernet network interface allows full remote access for monitoring, configuration and control and notifications via web browser VLAN, trunking and other features improve switch's and network's efficiency and performance

**Basic 120V 15A PDU** 8 NEMA 5-15R rear outlets supply continuous power to connected devices 3860 joules of Isobar surge suppression Front-panel LEDs indicate protection, fault, and line status 40–80 dB EMI/RFI noise reduction

## Highlights

- IP-MAC-Port-Binding, ACL, Storm Control
- Port Security, DHCP Snooping, 802.1x, L2
- WEB management, SNMP, RMON features
- 16 ports and 2 dedicated Mini-GBIC SFP slots
- Enterprise-level, security and layer 2 management
- 3860-joule surge protection rating
- Built-in 8-outlet PDU with diagnostic LEDs

## Package Includes

- NSS-G16D2 16-Port Gigabit L2 Managed Network Switch
- Rack-mounting hardware
- Owner's manual



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**Dual Dedicated SFP Ports** Connect two SFP (mini-GBIC) transceiver modules for uplinking to other switches via optical fiber or copper LEDs indicate interface traffic

**Compliant with Energy Efficient Ethernet standards** Automatically shifts unused ports to low power state without interrupting network connection Meets IEEE 802.3ab, 802.3i, 802.3u, 802.3x, 802.3, 802.1q, 802.1d, 802.1w, 802.3ad and 802.3az standards

**Mounts Horizontally in 1U of Rack Space** Compatible with EIA-standard 19 in. racks and rack enclosures Fanless metal housing for silent operation NEMA 5-15P plug with 6 ft. AC power cord

**Works with the Most Popular Web Browsers**

The NSS-G16D2 is browser-based and works independently from the connected computer's operating system. Because switch compatibility is based on common hardware standards, rather than system software dependencies, the NSS-G16D2 accommodates most platforms. Preferred web browsers include Google Chrome (on both Windows and macOS) and Microsoft Edge (Windows only).

## Specifications

| OVERVIEW                     |  |
|------------------------------|--|
| UPC Code                     | 037332195470   |
| Product Type                 | Switch/PDU Combination   |
| PDU Type                     | Basic  |
| INPUT                        |  |
| Input Phase                  | Single-Phase   |
| Electrical Consumption (Max) | 30W  |
| PDU Plug Type                | NEMA 5-15P   |
| Voltage Compatibility (VAC)  | 120  |
| Input Plug Type              | NEMA 5-15P   |
| Input Cord Length (ft.)      | 6  |
| Input Cord Length (m)        | 1.83   |
| OUTPUT                       |  |
| Output Circuit Breakers      | 12A  |
| Output Receptacles           | (8) 5-15R  |
| POWER                        |  |
| Power Consumption (Watts)    | 30   |
| Power Consumption Detail     | PDU supports up to 12A total; Network switch consumes up to 30 watts |
| CONNECTIONS                  |  |
| Number of Ports              | 18   |
| Ports                        | 16   |



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|  |   |
|--|---|
| Ports Detail                                 | 16x 10/100/1000BASE-T; 1x Console   |
| SFP Uplink Ports                             | 2   |
| SFP Uplink Ports Detail                      | 2x Mini-GBIC SFP Uplinks  |
| PoE Supported Ports                          | 0   |
| Network Switch Ports                         | (16) 10/100/1000 (RJ45); (2) Dedicated SFP; (1) Console (RJ45)  |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |   |
| Switches                                     | 2 included switches enable HARD factory reset and SOFT factory reset options  |
| LED Indicators                               | Power LED (Green for Power On); Two LEDs per RJ45 port (Green indicates 10/100Mbps link; Amber indicates 1000Mbps link; LEDs flash to indicate port activity); Two LEDs indicate SFP connection (Green); One LED indicates system status (Green); Set of 3 LEDs indicate surge suppression status (Green: Protection Present / Red: Fault / Green: Line OK) |
| <b>SURGE / NOISE SUPPRESSION</b>             |   |
| AC Suppression Joule Rating                  | 3860  |
| Protection Modes                             | L-N, L-G, N-G   |
| Clamping Voltage (RMS)                       | 330   |
| EMI / RFI Filtering                          | 40-80dB   |
| <b>PHYSICAL</b>                              |   |
| Primary Form Factor                          | Rackmount   |
| Color  | Black   |
| Housing Color                                | Black   |
| Minimum Required Rack Depth (cm)             | 39.12   |
| Minimum Required Rack Depth (inches)         | 15.4  |
| PDU Form Factor                              | Horizontal (1U)   |
| Shipping Dimensions (hwd / in.)              | 4.70 x 17.00 x 20.70  |
| Shipping Dimensions (hwd / cm)               | 11.94 x 43.18 x 52.58   |
| Shipping Weight (lbs.)                       | 10.80   |
| Shipping Weight (kg)                         | 4.90  |
| Unit Dimensions (hwd / in.)                  | 1.710 x 17.320 x 12.400   |
| Unit Dimensions (hwd / cm)                   | 4.34 x 44 x 31.5  |
| Unit Weight (lbs.)                           | 8.49  |
| Unit Weight (kg)                             | 3.85  |
| Rack Units                                   | 1   |
| <b>ENVIRONMENTAL</b>                         |   |
| Storage Temperature Range                    | 14° to 158°F (-10° to 70°C)   |
| Relative Humidity                            | 5 to 95% (Non-condensing)   |



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|                                      |  |
|--------------------------------------|--|
| Operating Elevation                  | 0-10000 ft. (0-3000 m)   |
| Operating Temperature                | 32 to 104 F (0 to 40 C)  |
| <b>COMMUNICATIONS</b>                |  |
| Network Compatibility                | 1 Gbps (Gigabit)   |
| Network Compatibility Details        | Auto-negotiable  |
| Switching Capacity                   | 36 Gbps  |
| Switching Capacity Details           | 2 Gbps per port with full duplex   |
| <b>FEATURES &amp; SPECIFICATIONS</b> |  |
| Jumbo Frames                         | 10000  |
| OSI Layer                            | Layer 2  |
| Console Port                         | Yes  |
| MAC Auto Learning                    | Yes  |
| MAC Addresses                        | 16000  |
| RMON                                 | Yes  |
| SNMP                                 | Yes  |
| Storm Control                        | Yes  |
| DHCP Snooping                        | Yes  |
| Auto MDI/MDIX Crossover Detection    | Yes  |
| Fans (Type/Quantity)                 | Fanless  |
| <b>STANDARDS &amp; COMPLIANCE</b>    |  |
| Product Certifications               | CAN/CSA-C22.2 No. 60950-1 (Canada); NOM (Mexico); UL 1449; UL 60950-1  |
| Product Compliance                   | RoHS; IEEE 802.1d (STP); IEEE 802.1q Tagged VLAN; IEEE 802.1w (RSTP); IEEE 802.3 Auto-Negotiation; IEEE 802.3ab 1000Base-T; IEEE 802.3ad (LACP); IEEE 802.3az (Energy Efficient Ethernet); IEEE 802.3i 10Base-T; IEEE 802.3u 100Base-TX/FX; IEEE 802.3x Flow Control; REACH; FCC Part 15 Class A (USA) |
| <b>WARRANTY &amp; SUPPORT</b>        |  |
| Product Warranty Period (Worldwide)  | 5-year limited warranty  |

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