

# **LEGENDNX**

## **LGNX162POEGWM**

### **16-Port PoE Gigabit Layer 2 Managed + 2 x BASE-X PORTS**

#### **Versatile Connectivity:**

- 16 × 10/100/1000Mbps PoE ports
- 2 × 10/100/1000Mbps Ethernet uplink ports
- 2 × Gigabit SFP uplink ports
- 1 × Console port for advanced management

#### **High Power PoE Support:**

- Supports IEEE 802.3af (15.4W) and IEEE 802.3at (30W) power standards
- Advanced PoE power management with PoE Watchdog for automatic monitoring

#### **Advanced Network Management:**

- Supports VLAN, QoS, port mirroring, and access control
- Secure 802.1x authentication, TACACS+, and AAA support
- Web, Telnet, CLI, SSH, SNMP, and RMON management interfaces

#### **Superior Performance & Reliability:**

- 40Gbps switching bandwidth and 29.76Mpps packet forwarding rate
- Fanless, 1U rack-mountable design with natural cooling
- Surge protection (4KV General, 2KV Differential), ESD protection (8KV Air, 6KV Contact)

#### **In short**

The LGNX162POEGWM PoE Switch is designed for high-performance networking, featuring advanced PoE capabilities and seamless connectivity for 10/100/1000Mbps Ethernet devices. Built with high-quality network ICs and a stable PoE chip, it supports the IEEE 802.3af (15.4W) and IEEE 802.3at (30W) standards, ensuring efficient power delivery to compatible devices. This switch automatically detects and powers PoE-enabled devices while safeguarding non-PoE devices by transmitting data without forced power. Its intelligent management functions and robust security features make it ideal for modern enterprise networks, surveillance systems, and other high-demand applications.



\*Design and specifications are subjects to change without notice.

## Technical Specifications

|                            |  |
|----------------------------|--|
| Ordering Information       | 16-Port PoE Gigabit Layer 2 Managed + 2 x BASE-X PORTS   |
| Ports                      |  |
| AC input                   | AC100-240V , 50/60Hz   |
| Total Network Ports        | 20   |
| Ethernet Ports             | 16 x 10/100/1000Mbps PoE Port<br>2 x 10/100/1000Mbps Uplink Port<br>2 x 1000Mbps SFP Port<br>1 x RJ45 Console Port |
| Operationnal Status        |  |
| Power Indicator (PWR)      | Light On: Power On<br>Light Off: Power Off   |
| System Indicator (SYS)     | Light Flashing: System is Starting<br>Light On: System is Running  |
| PoE/ACT                    | Light On: PoE on<br>Light Off: PoE off   |
| Link/ACT                   | Light On: Link is connected<br>Light Flashing: Data is transmitted<br>Light Off: Link is disconnected              |
| Reset Instructions         | Press briefly to restart; hold for 5 seconds to reset to factory settings  |
| Performance                |  |
| Bandwidth                  | 40Gbps   |
| Forwarding Rate            | 29.76Mpps  |
| Packet Buffer memory       | 4M   |
| Flash memory               | 16MB   |
| DDR SDRAM                  | 128MB  |
| MAC Address Table Capacity | 8K entries   |
| Jumbo frame size           | 9.6Kbytes  |
| VLAN Supported             | Yes (4096)   |
| PoE Standards              | I IEEE802.3af / IEEE802.3at  |
| PoE Power Supply           | 200W / Input Voltage: AC100-240V/50-60Hz   |
| PoE Features               | Advanced PoE Power Management with PoE Watchdog for automatic monitoring   |

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| Standard               |  |
|------------------------|--|
| Network Protocols      | IEEE 802.3: Ethernet MAC Protocol<br>IEEE 802.3i: 10BASE-T Ethernet<br>IEEE 802.3u: 100BASE-TX Fast Ethernet<br>IEEE 802.3ab: 1000BASE-T Gigabit Ethernet<br>IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber)<br>IEEE 802.3ad: Standard method for performing link aggregation<br>IEEE 802.3x: Flow control<br>IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol)<br>IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization (Multicast filtering function)<br>IEEE 802.1q: VLAN Bridge Operation<br>IEEE 802.1x: Client/Server Access Control and Authentication Protocol<br>IEEE 802.1d: STP<br>IEEE 802.1s: MSTP<br>IEEE 802.1w: RSTP |
| PoE protocol           | IEEE802.3af (15.4 W) / IEEE802.3at (30 W)  |
| Industry Standards     | EMI: FCC Part 15 CISPR (EN55032) class A<br>EMS: EN61000-4-2 (ESD)<br>EN61000-4-5 (Surge)  |
| Network Media          | 10BASE-T: Cat3,4, 5 or above UTP( $\leq 100$ M)<br>100BASE-TX: Cat5 or above UTP( $\leq 100$ M)<br>1000BASE-TX: Cat5 or above UTP( $\leq 100$ M)   |
| Fiber Media            | Multi-mode Fiber: 50/125, 62.5/125, 100/140um<br>Single-mode Fiber: 8/125, 8.7/125, 9/125, 10/125um  |
| General                |  |
| Protection             | General 4KV, Differential 2KV, ESD 8KV air, 6KV contact  |
| Operating conditions   | Operating temperature: -10~50°C<br>Humidity: 10%~90%, No condensation  |
| Color                  | Black  |
| Power Supply           | 200W   |
| Weight                 | 2.8KG (excluding input cable & packaging)  |
| Dimensions (L x W x H) | 440 x 204 x 44mm   |

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## Software Function

### Basic Features

- Supports hardware watchdog for system stability and factory reset functionality
- Provides global system information, statistics, and log management
- Includes user management, alarm notifications, and configuration management
- Allows port speed, duplex mode, flow control, and frame length settings
- Supports port mirroring, speed limitation, and energy-saving modes

### PoE Management

- Enables PoE scheduling and power management
- Supports automatic PoE monitoring and watchdog functions.
- Allows individual PoE port power configuration.

### VLAN Capabilities

- Supports 4K VLANs for advanced network segmentation
- Provides 802.1Q VLAN support, including port-based VLANs
- Offers Access, Trunk, and Hybrid VLAN modes
- Supports GVRP (VLAN Registration Protocol) for dynamic VLAN registration
- Allows MAC-based, IP-based, and Voice VLANs

### MAC Address Management

- Automatic MAC address learning and aging for efficient data handling
- Supports static, dynamic, and filtered MAC address tables

### Security Features

- Password-protected access for enhanced security.
- Restricts user access based on port number, IP address, or MAC address
- Supports HTTPS and SSH (V1/V2) for secure management
- Provides VLAN-IP-MAC-Port binding for network security
- Includes ARP detection, IP source protection, and DoS attack prevention
- Supports DHCP Snooping and attack protection mechanisms
- Implements 802.1X authentication with AAA and RADIUS protocol support
- Features port security and port isolation to prevent unauthorized access

### Access Control

- Supports L2-L4 packet filtering for network security
- Provides port mirroring, rate limiting, and QoS remarking

### Quality of Service (QoS)

- Supports eight priority queues per port for optimized traffic management
- Implements port priority, 802.1P priority, and DSCP priority
- Uses SP and WRR scheduling algorithms for efficient packet forwarding

### Spanning Tree Protocols

- Supports STP (802.1D), RSTP (802.1W), and MSTP (802.1S) for loop prevention
- Enables multi-instance spanning tree configuration
- Provides BPDU protection for enhanced network stability

### Multicast

- Supports IGMP v1/v2/v3 Snooping and MLD v1/v2 Snooping
- Allows fast leave mechanisms and multicast querying
- Provides Layer 2 IPv4 and IPv6 multicast support
- Includes IGMP Layer 3 multicast management

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## Software Function

### Storm Control & Link Aggregation

- Offers broadcast, multicast, and unknown unicast storm suppression
- Supports ring protection mechanisms
- Enables static and dynamic link aggregation (LACP)
- Allows load balancing based on IP, MAC, or hybrid modes
- Supports up to 8 aggregation groups with 8 ports per group

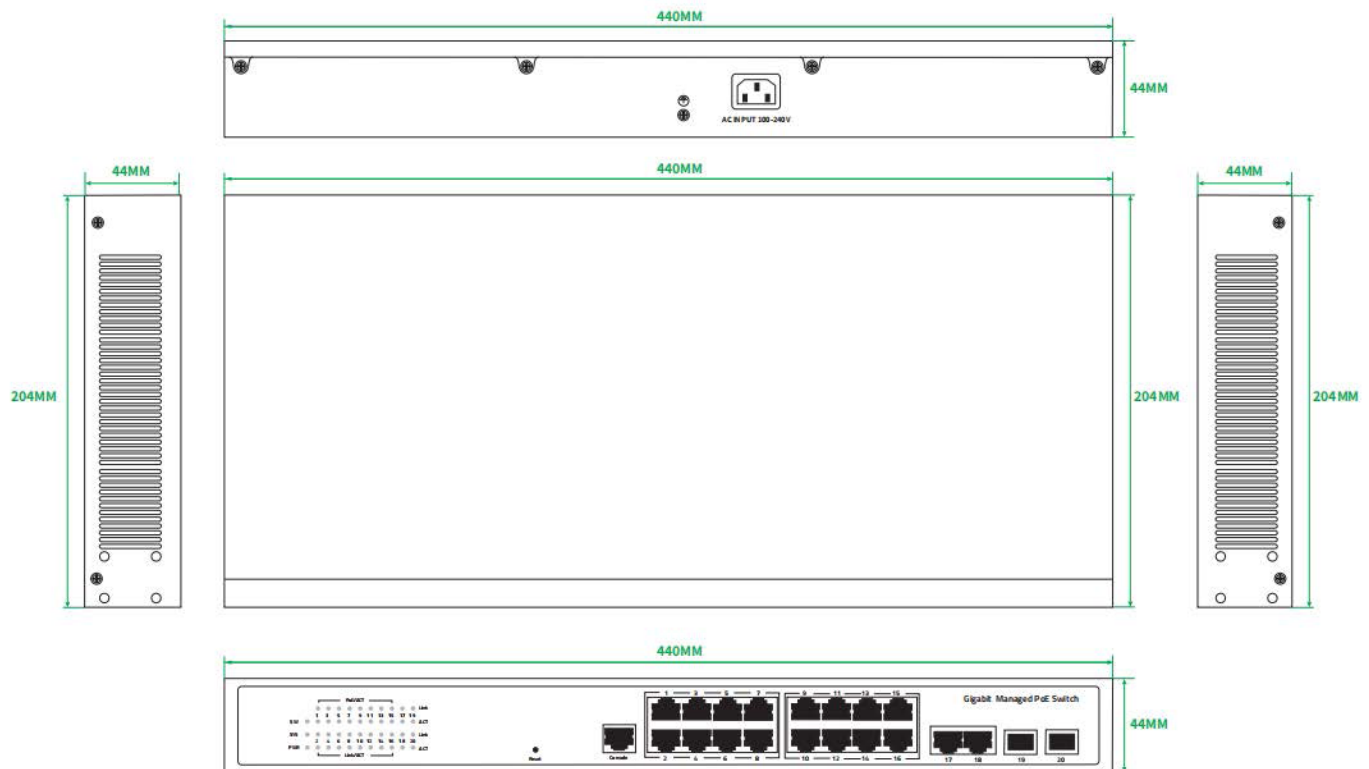
### IPv6 Features

- Supports IPv6 Ping, Traceroute, Telnet, and SSH
- Enables IPv6-based HTTP and HTTPS management

### Management & Maintenance

- Provides web-based (HTTP/HTTPS) and CLI management
- Supports Telnet, SSH (V1/V2), and local serial port access
- Enables SNMP V1/V2/V3 for network monitoring
- Implements RMON V2 for remote monitoring
- Supports LLDP for device discovery
- Includes SNTP for time synchronization
- Monitors CPU and memory usage for system stability
- Provides system log classification and alerts
- Supports network diagnostics tools like Ping and Traceroute
- Offers cable detection for troubleshooting connectivity issues

## Dimensions



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