

# LT-L2IND-6012P8C4F-HP

## Industrial Managed Gigabit PoE Switch

The LT-L2IND-6012P8C4F-HP is an industrial-grade, managed Gigabit PoE switch designed for high-reliability communication in demanding environments. It integrates eight 10/100/1000BASE-T PoE ports and four Gigabit SFP uplink slots, delivering high-speed data transmission over copper or fiber. With its rugged IP40 metal enclosure, wide operating temperature range, and redundant DC power inputs, the switch ensures continuous operation in harsh industrial conditions.

It supports advanced Layer 2 + management functions, PoE scheduling, VLAN segmentation, and rapid ring recovery for resilient network topologies.



## Features

- 8 × Gigabit PoE ports (IEEE 802.3af/at), up to 30 W per port
- 4 × Gigabit SFP slots for fiber uplink (100/1000 Mbps dual mode)
- Layer 2 + switching with VLAN, STP/RSTP/MSTP, IGMP Snooping, QoS, and ACLs
- IPv4/IPv6 static routing support (Layer 3 Lite)
- G.8032 ERPS ring redundancy with recovery < 20 ms
- Advanced PoE management
- Redundant 48 – 57 VDC power inputs
- Extended temperature range –40 °C to +75 °C
- EMC protection 6 kV surge and ESD Level 4 immunity
- Management via Web GUI, CLI (Telnet/SSH), and SNMP v1/v2c/v3
- Dual firmware and configuration backup for system reliability

## Applications

Industrial automation and control networks  
Transportation and smart city infrastructure  
Security and surveillance systems with PoE Cameras  
Energy and utility monitoring systems  
Remote communication nodes and control centers

## Compliance

- EMC: IEC 61000-4-2 (ESD Level 4), IEC 61000-4-4 (EFT Level 4), IEC 61000-4-5 (Surge 6 kV Common Mode / 2 kV Differential Mode)
- PoE Standards: IEEE 802.3af / 802.3at
- Switching Standards: IEEE 802.1Q, 802.1D, 802.1W, 802.1S, 802.3x, 802.1p
- Environmental: IP40 protection class, RoHS compliant

## Packing details

1 × LT-L2IND-6012P8C4F-HP Industrial PoE Switch  
1 × User Guide  
1 × Warranty Card

SFP modules and power supply are sold separately.



# LT-L2IND-6012P8C4F-HP

## Industrial Managed Gigabit PoE Switch

| Parameter                    | Specification                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------|
| <b>Model</b>                 | LT-L2IND-6012P8C4F-HP                                                                       |
| <b>Copper Ports</b>          | 8 × 10/100/1000BASE-T RJ45 auto-sensing ports                                               |
| <b>Fiber Ports</b>           | 4 × 100/1000BASE-X SFP slots (dual mode)                                                    |
| <b>Console Port</b>          | 1 × RS-232-to-RJ45 serial port (115200 bps, 8-N-1)                                          |
| <b>Switch Architecture</b>   | Store-and-Forward                                                                           |
| <b>Switch Fabric</b>         | 24 Gbps non-blocking                                                                        |
| <b>Throughput</b>            | 17.856 Mpps @ 64 bytes                                                                      |
| <b>Address Table</b>         | 8 K MAC entries                                                                             |
| <b>Buffer Memory</b>         | 4.1 Mb shared                                                                               |
| <b>Jumbo Frame</b>           | 9216 bytes                                                                                  |
| <b>SDRAM / Flash</b>         | 1 Gb / 128 Mb                                                                               |
| <b>Flow Control</b>          | IEEE 802.3x (full-duplex); back pressure (half-duplex)                                      |
| <b>Reset</b>                 | > 2 sec for factory default and reset                                                       |
| <b>Power Input</b>           | Dual 48 – 57 VDC redundant inputs                                                           |
| <b>PoE Standards</b>         | IEEE 802.3af / 802.3at (PSE)                                                                |
| <b>PoE Budget</b>            | 30 W per port (max), total dependent on PSU                                                 |
| <b>PoE Power Type</b>        | 52 V DC 300 mA (15.4 W, 802.3af); 52 V DC 600 mA (30 W, 802.3at)                            |
| <b>LED Indicators</b>        | Power, System, PoE, Port Status (Gbps/Activity)                                             |
| <b>Management Interface</b>  | Web GUI, CLI (Telnet/SSH), SNMP v1/v2c/v3, RMON, LLDP                                       |
| <b>Layer 2 Features</b>      | VLAN (802.1Q/Port/Voice), STP/RSTP/MSTP, LACP, QoS, IGMP/MLD Snooping, ACLs, Port Mirroring |
| <b>Layer 3 Features</b>      | IPv4/IPv6 Static Routing (Software Base)                                                    |
| <b>Security</b>              | 802.1X, RADIUS, TACACS+, Port Security, ARP Inspection, DoS Protection                      |
| <b>PoE Management</b>        | Scheduling, PD Alive Check, Priority, Soft-Reboot Non-Stop                                  |
| <b>Protection</b>            | 6 kV Surge, ESD Level 4, EFT Level 4                                                        |
| <b>Operating Temperature</b> | –40 °C to +75 °C                                                                            |
| <b>Storage Temperature</b>   | –40 °C to +80 °C                                                                            |
| <b>Humidity</b>              | 5 % – 95 % (non-condensing)                                                                 |
| <b>MTBF</b>                  | ≥ 50,000 hours                                                                              |
| <b>Enclosure</b>             | IP40 metal housing                                                                          |
| <b>Dimensions (W×D×H)</b>    | 165 × 123 × 53.5 mm                                                                         |
| <b>Weight</b>                | 1.0 kg                                                                                      |
| <b>Installation</b>          | DIN-rail or wall mounting                                                                   |
| <b>Certification</b>         | RoHS / CE / FCC (under evaluation)                                                          |

