

LinkPower™ LPS3802ATM

Industrial L2+ Managed 10-Port Gigabit PoE Network Switch with 2 Gb Fiber Uplink Ports



APPLICATIONS

- *Smart City*
- *IP Video Surveillances*
- *Campus Networks*
- *Wireless Mesh Networks*
- *Border Security Surveillance*
- *Municipal Networks*
- *Energy & Refineries*
- *Hospitality Networks*
- *Hotel Resort Networks*
- *Hotspot Integrations*
- *VOIP Services*
- *Traffic Monitoring*

Inscape Data's LinkPower™ LPS3802ATM is an Industrial 10-port Layer 2+ Full Managed PoE (Power over Ethernet) Switch, and it offers 8-Port Gigabit PoE and 2 SFP Uplink Ports with dual power input redundancy, i.e., 48~57V DC. LPS3802ATM offers the rich L2+ management features you need to manage your critical PoE applications, reduce your overall installation cost, and optimize your network bandwidth to deliver information and applications more efficiently and reliably. It provides the ideal combination of manageability and PoE capability for the next-level commercial network and enterprise applications, all of which demand concentrated network bandwidth and high PoE power capability. With the Gigabit transmission, you will be increasing bandwidth for higher performance and quickly transferring large amounts of triple-play services across networks.

KEY SYSTEM FEATURES

- 8 Port 10/100/1000Base-T PoE ports, 2 SFP Industrial L2+ Managed POE Switch.
- L2+ full management features for better manageability, security, QoS, and network performance.
- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE management, IP Source Guard, ARP inspection, ACLs, etc.
- Support spanning tree STP(802.1D) and RSTP(802.1W).
- Jumbo frames support up to 9.6K kilobytes.
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis.
- Supports both IEEE 802.3af/at standards and PoE configuration functions.
- G.8032, support <50ms industrial quick ring protection.
- 48 VDC (46 ~57VDC), dual redundancy power input design for non-stop working, 6-pin 5.08mm-gap plug-in terminal.

Model	LPS3802ATM
Interface Characteristics	
Fixed Port	1*RS232 Console port 8*10/100/1000Base-T PoE ports (Data/Power) 2*100/1000Base-X uplink SFP slot ports (Data) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)
Ethernet Port	Port 1-8 support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
SFP Slot Port	Gigabit optical fiber port, default no include optical modules (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	20Gbps

Forwarding Rate@64byte	14.88Mpps
CPU	416MHz
DRAM	1G
FLASH	128M
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.6K
LED Indicator	Fiber port: L/A (Green), PoE: PoE (Green) Power/ System: SYS (Green), Network: Link (Yellow)
Reset Switch	Yes, Press and hold the reset switch for 10s and release it to restore the factory settings
PoE & Power Supply	
PoE Port	Port 1 to 8 IEEE 802.3 af/at
PoE Management	Port PoE working status display Port PoE output priority configuration PoE power supply total power limit configuration Power delay start, PoE work and time scheduling Port PoE output power distribution, PoE on/off, af/at power distribution
Power Supply Pin	1/2(+) 3/6(-)
Max Power Per Port	30W, IEEE 802.3 af/at
Power Consumption	Standby<10W, Full load af<120W, at<240W
Input Voltage/ Interface	DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Physical Parameter	
Operation TEMP /	-40°C~+80°C, 5%~90% RH Non condensing

Humidity	
Storage TEMP / Humidity	-40°C~+85°C, 5%~95% RH Non condensing
Dimension(L*W*H)	165*148*54mm
Net /Gross Weight	<0.8kg / <1.2kg
Installation	Desktop, 35mmDIN rail

Certification & Warranty

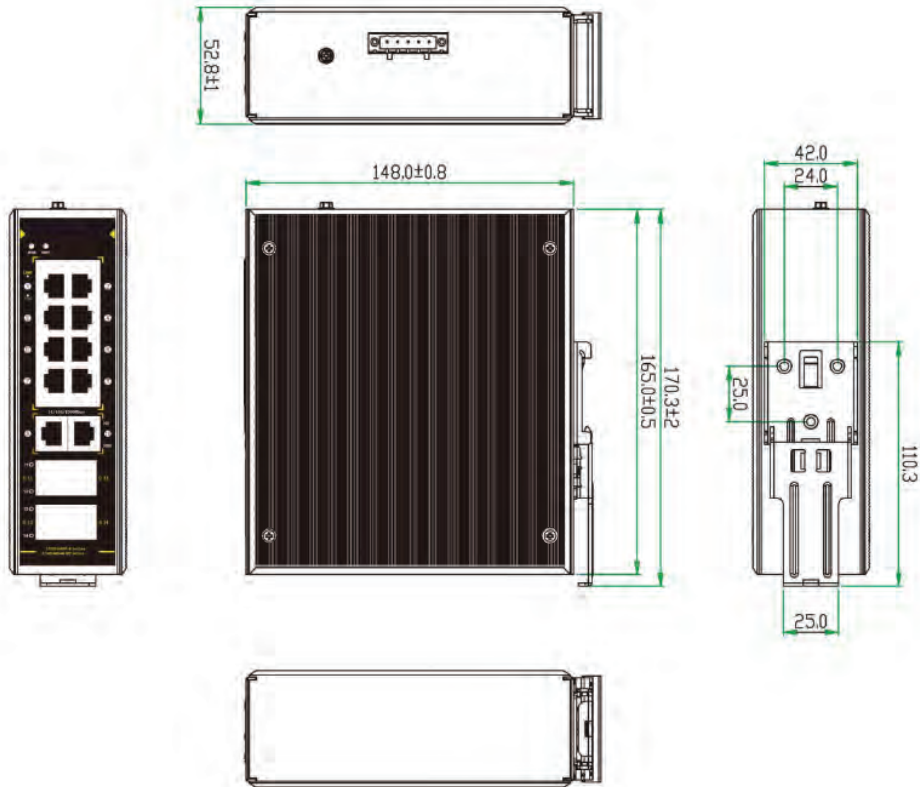
Lightning Protection	<p>Protection level: IP40</p> <p>Lightning protection: 6KV 8/20us</p> <p>IEC61000-4-3 (RS):10V/m (80~1000MHz)</p> <p>FCC Part 15/CISPR22 (EN55022): Class B</p> <p>IEC61000-6-2 (Common Industrial Standard)</p> <p>IEC61000-4-9 (Pulsed magnet field): 1000A/m</p> <p>IEC61000-4-10 (Damped oscillation): 30A/m 1MHz</p> <p>IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV</p> <p>IEC61000-4-4(EFT): Power cable: ±4kV; data cable: ±2kV</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p> <p>IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge</p> <p>IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)</p> <p>IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m,1s to 3s</p> <p>IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	<p>CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS</p>
Warranty	<p>3 years</p>

Network Management Features

Interface	<p>Port green Ethernet Energy-saving setting</p>
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	<p>Broadcast storm control based on port speed</p> <p>IEEE802.3X (Full-duplex), Port temperature protection setting</p> <p>Speed limit of message flow in the access port. The min particle size is 64Kbps.</p>
Layer 3 Features	<p>ARP protocol max 1024 entries</p> <p>Static routing/ default routing max 128 entries</p> <p>Support L2+ network management, IPV4/ IPV6 dual stack management</p> <p>Support L3 routing and forwarding, and support communication between different network segments and different VLAN</p>
VLAN	<p>Port configuration of Access, Trunk, Hybrid</p> <p>VLAN based on MAC, Voice VLAN, QinQ configuration</p> <p>VLAN based on the protocol, 4K VLAN based on port, IEEE802.1q</p>
Port Aggregation	<p>LACP, Static aggregation</p> <p>Max 5 aggregation groups and 8 ports per group.</p>
Spanning Tree	<p>STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)</p>
Industrial Ring	<p>250 Ring at most, Max 250 devices per ring.</p>
Network Protocol	<p>G.8032 (ERPS), Recovery time less than 20ms</p>
Multicast	<p>MLD Snooping v1/v2, Multicast VLAN, Fast log out</p> <p>IGMP Snooping v1/v2/v3, Max 1024 multicast groups</p>
Port Mirroring	<p>Bidirectional data mirroring based on port</p>
QoS	<p>Diff-Serv QoS, Priority mark/ remark</p> <p>Queue scheduling algorithm (SP, WRR, SP+WRR)</p> <p>Flow-based rate limiting, Flow-based packet filtering</p> <p>8*Output queues of each port, 802.1p/ DSCP priority mapping</p>
ACL	<p>Port-based Issuing ACL, ACL based on port and VLAN</p> <p>L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.</p>
Security	<p>Mac black holes, IP source protection</p>

	<p>IEEE802.1X & MAC address authentication</p> <p>Broadcast storm control, Backup for host datum</p> <p>SSH 2.0, SSL, Port isolation, ARP message speed limit</p> <p>User hierarchical management and password protection</p> <p>Anti-DoS attack, AAA& RADIUS &TACACS+ certification</p> <p>IP-MAC-VLAN-Port binding, ARP inspection, MAC learning limit</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	<p>ONV-NMS platform cluster management (LLDP+SNMP)</p> <p>CPU real-time utilization status view, SNMP V1/V2/V3</p> <p>Console/ AUX Modem/ Telnet/ SSH2.0, CLI configuration</p> <p>Cable length status detection, NTP clock, One-key recovery, LLDP</p> <p>FTP, TFTP, Xmodem, SFTP file upload and download management</p> <p>Ping detection, System work log, Web network management (HTTPS)</p>
System	<p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p>



PACKAGE CONTENTS

1. LinkPower LPS3802ATM Gigabit PoE Switch
2. User's Manual
3. Quick Install Guide
4. Warranty Information



Product Information Online: <http://www.inscapedata.com/>

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