

## LinkPower™ LPS6844ATM

Industrial L2+ Managed Gigabit PoE Network Switch with 10 Gigabit Fiber Uplink Ports



### APPLICATIONS

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

The LinkPower™ LPS6844ATM Industrial PoE (Power over Ethernet) Managed Layer 2+ Switch offers 8-Port Gigabit PoE with 8 Port Gigabit PoE with 4 Gigabit RJ45 and 4 10 Gigabit SFP+ Uplink Port Network Switch with dual power input redundancy with 48-57V DC and up to 30W Type 4 per PoE port. Additionally, the following are the product highlights:

- ***Excellent performance and reliability***  
The 10Gb L2+ Industrial PoE Switch passed the rigorously testing to deliver excellent performance. As a L2+ managed switching solution, it also provides the flexibility to manage and prioritizes suitable-bandwidth traffic such as voice.
- ***Secure and high performance network connectivity***  
The switch can easily and securely deliver PoE power up to 30W to devices up to 100 meters away. High performance Gigabit network connectivity will help to speed file transfers and data processing, provide network performance and security, and keeps the powered devices connected and productive. .
- ***Stringent network security***  
Supports dynamic or static binding by users' definition, such as IP, MAC, VLAN, Dynamic PORT, etc. Support port isolation, to prevent communication between two neighbor network equipment within the same broadcast domain, for reducing network risk; Supports perfect storm control function which can suppress broadcast, multi- cast, and uni-cast storm; Support specific ARP inspection which can effectively prevent "ARP spoofing attack" created by hackers or attackers via ARP packets.
- ***Unified communications with open standards***  
As a managed network solution, it provides the high performance and advanced networking capability to deliver all networking communications and data (such as IP telephony, IP surveillance, and Video Streaming) over a 10Gb fiber optic network

- L2+ features provide better manageability, security, QoS, and performance.
- 12\*10/100/1000M Base-TX RJ45 Ports + 4\*10Gb SFP+ Ports. All ports support line-speed forwarding mode, 368GB Switching Capacity.
- 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.
- Port security, allows setting different security level on each port with password, 802.1x, IP&MAC address Guard, RADIUS, & TACACS+.
- Support spanning tree STP, RSTP and MSTP.
- Jumbo frames support up to 9.6K kilobytes.
- Support enhanced management through WEB, CLI, TELNET, SNMP.
- Support cable diagnosis.
- 1-8 port support PoE. Compliant with both IEEE 802.3af/at. Allow PoE configuration for each PoE port.

## PRODUCT SPECIFICATIONS

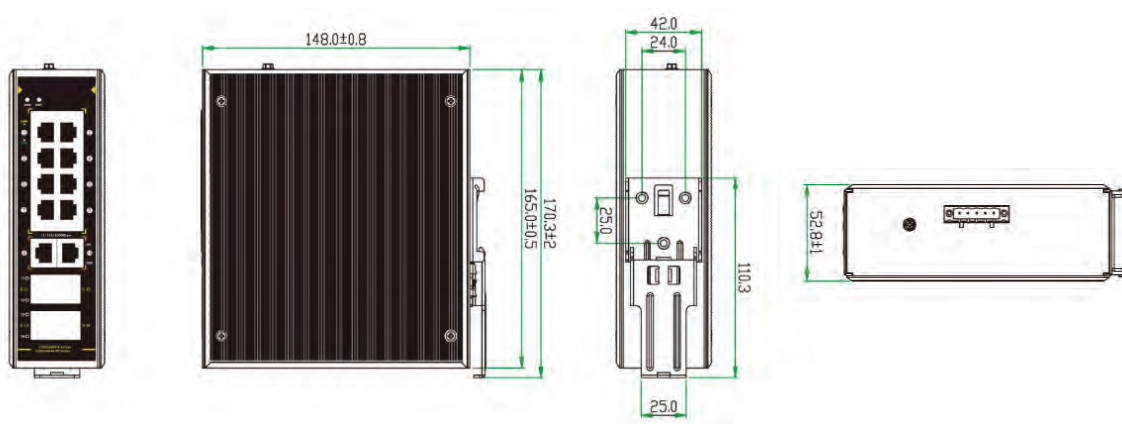
Model	LPS6844ATM
Ports	8*10/100/1000 M PoE RJ45 ports 4*10/100/1000M RJ45 ports 4*10G SFP+ ports
Management Port	1x Console port
Reset Key	1x Reset key, for restore default settings
Switching Capacity	368Gbps
PoE Feature	IEEE802.3af/at Support PoE management, PoE schedule, Information of PoE status.
Packet Forwarding Rate	77.38Mpps @ 64bytes
Operating Temp.	-30°~+70°C (-22°F~+158)
Input Voltage	AC: 110~240V/50~60Hz / DC Input: 48~57V, 250W Total system power

<b>Layer 2+ Switching</b>	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 8 groups Up to 16 ports per group
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN, & GVRP
DHCP Snooping (Layer 2)	Prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is also supported)
<b>Security</b>	
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser- based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses, and Dynamic MAC Address Authentication
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
ACLs	Support for up to 256 entries Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag

<b>Quality of Service</b>	
Hardware Priority Queue	Support 8 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service (802.1p/ CoS)
Classification	Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based;
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
<b>Management</b>	
<b>Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog</b>	
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPS). Supports configuration, system dashboard, maintenance, and monitoring
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading
Firmware Upgrade	Web browser upgrade (HTTP/ HTTPS) and TFTP Upgrade through console port as well
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
Other Management	Single IP management; HTTP/HTTPS; SSH; RADIUS; DHCP Client; SNMP; cable diagnostics; ping; syslog; Telnet client
<b>Green Ethernet</b>	
Link Detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up

Cable Length Detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
<b>General</b>	
Jumbo Frames	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	Up to 16K MAC addresses
<b>Discovery</b>	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet

**DIMENSIONS**



**PACKAGE CONTENTS**

1. LinkPower LPS6844ATM 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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