

Elite Series

LPS6844ATM-T1S

8-Port Outdoor 1G Managed PoE Switch,
w/ 4 1G RJ45 and 4 10G SFP+ Uplink Ports



The LinkPower™ LPS6844ATM-T1S is a Layer 2+ Managed Outdoor Gigabit PoE switch designed for industrial and commercial networking applications. It features 8 Gigabit PoE ports, 4 Gigabit RJ45 uplink ports, and 4 10G SFP+ uplink ports, delivering high-speed connectivity and advanced network management capabilities for demanding outdoor deployments.

Housed in an IP68-rated weatherproof enclosure, the switch is built to withstand harsh outdoor environments, with IP66 protection when using the hinged cover and IP68 protection when fully screw-locked. Dual power input redundancy with 120–240V AC and/or 48V DC ensures reliable operation in critical applications, while the fanless low-power-consumption design enhances long-term reliability.

Designed for high-performance outdoor networks, the LPS6844ATM-T1S supports advanced Layer 2+ management features including VLAN, QoS, Link Aggregation, SNMP, CLI, WEB management, and flow control. The switch also supports looped network redundancy with self-healing recovery times under 20ms for improved network uptime and resilience. Advanced security features including IP/MAC/VLAN binding, port isolation, storm suppression, and ARP inspection help protect against unauthorized access and network attacks.

By integrating high-speed PoE networking, advanced management features, and 10G fiber uplinks into a rugged outdoor enclosure, the LPS6844ATM-T1S provides a reliable solution for IP surveillance, wireless backhaul, industrial automation, and smart city infrastructure deployments.

Key Product Features

- 8× 10/100/1000M Gigabit PoE Ports + 4× 10/100/1000M RJ45 Uplink Ports + 4× 10Gb SFP+ Uplink Ports with 368Gb switching capacity
- Advanced Layer 2+ management features including VLAN, QoS, ACLs, IGMP Snooping, DHCP Snooping, LLDP, Port Isolation, ARP Inspection, and IP Source Guard
- 8× IEEE 802.3af/at PoE ports with per-port PoE configuration support
- Enhanced management through WEB, CLI, TELNET, and SNMP
- STP, RSTP, and MSTP support for network redundancy and loop prevention
- Advanced port security with 802.1x, IP & MAC Address Guard, RADIUS, and TACACS+ authentication
- Jumbo frame support up to 9.6KB for improved large-packet transmission efficiency
- Built-in cable diagnostics support for simplified troubleshooting and maintenance

Technical Specifications

Model Description	Outdoor 16-Port Layer 2+ Gigabit Managed 802.3at PoE Switch
Model Name	LPS6844ATM-T1S
Port Interface	8* Gigabit 802.3at PoE ports (Data/ Power), 4* Gigabit RJ45 and 4* Gigabit SFP+ fiber uplink ports (Data)
Console Port	1*Console RS232 port (115200,N,8,1)
Forwarding Mode	Store and Forward (Full Wire Speed)
Network Media	10BASE-T: UTP Cat 3, 4, 5 (≤100 Meters), 100BASE-TX: UTP Cat 5/5e/6 (≤100 Meters) 1000BASE-TX: UTP Cat 5/5e/6 (≤150 Meters), 2.5Gbps Uplink Speed SFP Port 13 & 14
Performance Specification	Bandwidth: 12Gbps (non-blocking) Network Latency (100 to 1000 Mbps): maximum delay less than 50 microseconds Packet forwarding rate: 8.93Mbps@64bytes MAC address table: 8K MTBF: 190,000 hours (about 21 years) Support protection for over-current, over-voltage and reverse connection
Network Protocols and PoE Standards	IEEE 802.3: CSMA/CD, IEEE 802.3i: 10Base-T, IEEE 802.3u: 100Base-T IEEE 802.3ab: 1000Base-T, IEEE 802.3x: Flow Control, IEEE 802.1af: DTE Power via MDI IEEE 802.3af: Power-over-Ethernet standard, IEEE 802.3at: Power-over-Ethernet standard
LED Indicator	PWR, 10/100/1000, PoE, SFP Network
Power Supply	AC Input Voltage: 120V ~ 240V AC DC Input Voltage: 48V Output Voltage: 48V DC IEEE802.3at standard, each port power is 30W, total power is 250W for 8 ports Support OCP (Over-Current Protection) and electronic protection Connection: 3-pin AC pluggable connecting terminal, 4-pin DC pluggable connecting terminal
Enclosure Dimension	LxWxH: (12 x 10 x 4 inch, 304.8 x 250.4 x 101.6 mm)
Working Environment	Working Temperature: -30~70°C Storage Temperature: -40~85°C Relative Humidity: 5%~95%, non-condensing Storage Humidity: 10%~95%, non-condensing Working Height: 3000M above sea level (10,000ft) Storage Height: 3000M above sea level (10,000ft)
Radiation	CE mark, commercial FCC Part 15 Class B
Certification	CE Mark, Commercial CE/LVD FCC, RoHS, C-TICK, UL
Warranty	3 Years

Software Specifications

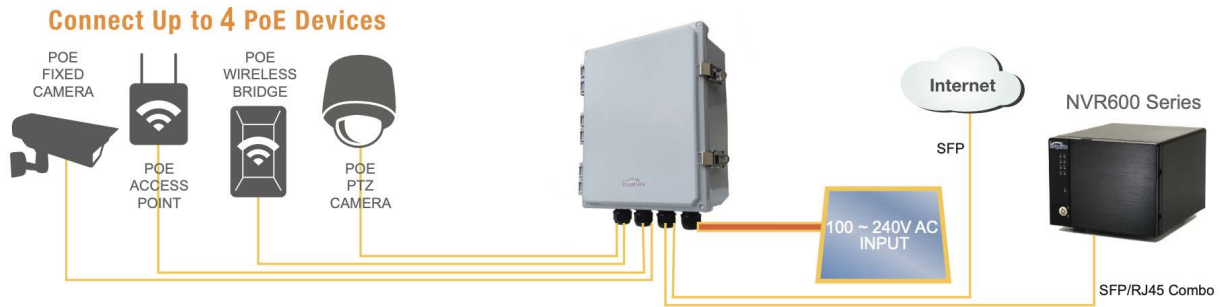
Layer 2+ Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 8 groups Up to 16 ports per group
VLAN	Support 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 snooping v1/v2	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is also supported)
Security	
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Layer Sockets (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

Software Specifications

Quality of Service		
Hardware Queue	Priority	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
Management		
Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog		
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
Green Ethernet		
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 detection	length	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
General		
Jumbo frames		Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table		Up to 16K MAC addresses.
Discovery		
Link Discovery Protocol (LLDP)	Layer	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.

System Configuration

LinkPower™ LPS6844ATM-T1S



Accessories

Standard Accessories

PFCK0001-3
Power & Fiber Connector Kit



ECK0001-4
Ethernet Connector Kit



WMK0001
Wall Mounting Kit



APCK0001
AC Power Cable Kit



Optional Accessories

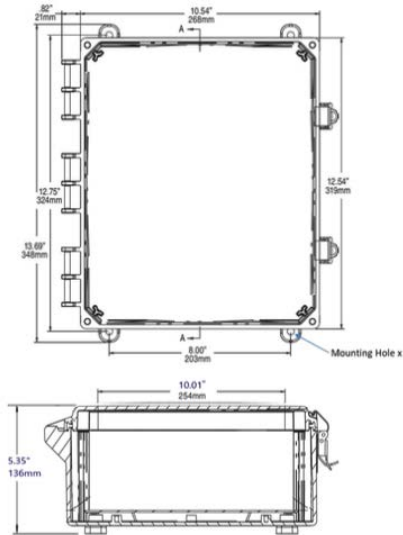
MMK0001-S
Mast Mounting Kit
(Pole Diameter from 2" to 4.5")



Pole Mount View

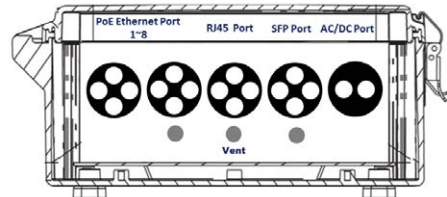


Enclosure Drawings & Interfaces



Interfaces

1. Weatherproof PoE Connector
2. Weatherproof SFP Cable Connector
3. Weatherproof AC / DC Power Cable Connector
4. Vent Plug

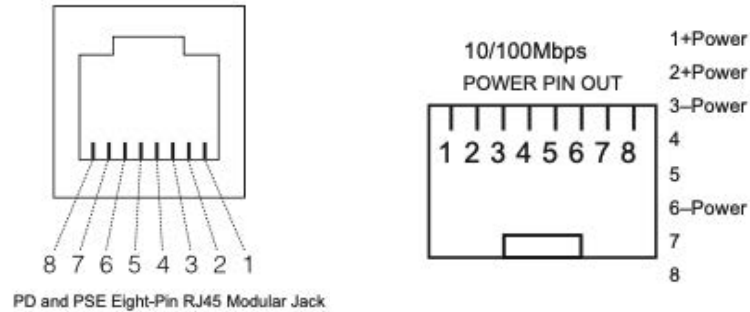


To Use Conduit Connectors, the diameter of the holes is 1.0 inch.



Internal Hotel Space: 10"x5"x4" (LxWxH) for Wiring Storage

Electrical Pin Out Diagram



Package Contents

1. LinkPower LPS6844ATM-T1S PoE Switch
2. User's Manual
3. Quick Install Guide
4. Warranty Information
5. APCK0001 AC Power Cable Kit
6. PFCK0001-3 Power & Fiber Connector Kit
7. ECK0001-4 Ethernet Connector Kit
8. WMK0001 Wall Mount Kit with 4 Flanges
9. MMK0001-L Pole Mount Kit (Optional)