Total PoE Solutions for Wired/Wireless, IP Video, & Smart City Applications

LinkPower™ PL2-22220 L2 Gigabit Managed PoE Switch

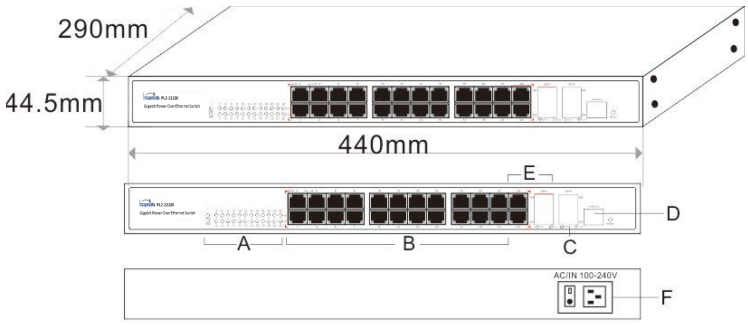
LinkPower™ PL2-22220 26-Port Layer 2+ Full Managed D‌ℇ‌ℐ‌-ōℛ‌ű PoE Switch

Inscape Data's LinkPower™ PL2-22220 is a 26-Port Layer 2+ Full Managed Gigabit PoE switch, the switch offers 22 10/100/1000M PoE RJ45 Ports compliant to IEEE 802.3af/at standards, 2 TP/SFP Combo Ports, and 2 Gigabit SFP Ports. The port 1 to 22 supports PoE, IEEE 802.3af/at standards, and each PoE port delivers up to 30W and can be customized by Web management software. Total input power is 400W. that provides a reliable total 400W PoE (Power over Ethernet) source for your commercial network. It delivers rich management features that you need to enhance your critical network applications, protects your sensitive information, and optimizes your network bandwidth to deliver information and applications more efficiently and reliably. It provides the ideal combination of management and PoE capability for the next level commercial network and enterprise mission critical applications which demand concentrated and high PoE power capability. Therefore, PL2-22220 helps you to create a more efficient network.

Applications

- *Smart City*
- *IP Video Surveillance*
- *Campus Network*
- *Wireless Mesh Network*
- *Border Security Surveillance*
- *Municipal Network*
- *Energy & Refineries*
- *Hospitality Network*
- *Hotel Resort Network*
- *Hotspot Integration*
- *VOIP Service*
- *Traffic Monitoring*

Product Dimensions



A.Working LED indicator
B. 22*Gigabit PoE Ports
C. 2*Gigabit SFP Ports
D.CONSOLE Port
E.2*Sets of Gigabit TP/SFP Combo Port
F.100-240VAC,50/60Hz

Key Features & Benefits

- 22*10/100/1000M RJ45 Ports + 2*TP/SFP Combo Ports + 2*Gigabit SFP Ports
- L2+ Full managed features provide better manageability, security, QoS, and 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 Kilobtyes.
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis
- IEEE 802.3af and 802.3at. Supports per port PoE configuration function, Total PoE power is 400W
- G.8032, support <50ms industrial quick ring protection

[1]Voltage Status can be 12V DC, 24V DC, 48V DC, or 802.3af depending on the models.

All above images were taken for the purpose of these explanations; actual images may differ. (03/2010-T)

Product	**LinkPower™ PL2-22220 26-Port L2 Full Gigabit Managed PoE Switch**
Performance (Switching capacity and forwarding rate)	
Capacity in Millions of Packets per Second (mpps) (64-byte packets)	38.69Mpps
Switching Capacity in Gigabits per Second (Gbps)	256G
Interface	
Ports	22*10/100/1000M RJ45 Ports + 2*TP/SFP Combo Ports + 2*Gigabit SFP Ports
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 13 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
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)
Security	
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
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
ARP Inspection	Prevent ARP spoofing attacks and ARP
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
Quality of Service	
Hardware Priority Queue	Support 8 hardware queues
Scheduling	8 COS queues per port support strict priority and weighted round-robin (WRR)
Classification	Port based; 802.1p(PCP) VLAN priority based;
Rate Limiting	Ingress policer;egress shaping and rate control;per VLAN,per port and flow based

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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; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)		
Green Ethernet			
Green and Energy-saving Ethernet (EEE)	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.		
General			
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces		
MAC Table	Up to 8K MAC addresses.		
Memory Buffer	4 M		
Discovery			
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.		
PoE			
PoE Standard:	IEEE802.3af/at	PoE Port Power:	Max 30W per PoE port, can be customized by Web management software
PoE Ports:	22 PoE Ports, Total 400W	Power Pin Type:	End-span (Mid-span optional)
Minimum Requirements			
Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network			
Environmental			
Dimensions	440x290x44.5mm		
Working Environment	Operating temperature: -20 to 55 ℃; Storage temperature: -40℃ to 75 ℃; Operating humidity: 10% to 95% , relative, non-condensing		

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