



Wide-range working temperature 800,000 hours MTBF



Advanced Hardware Architecture and Industry-leading Port Density



Varied Service Characteristics Versatile IPv6 Solution Complete Security Mechanism



IP40 protection 6KV lightning protection

## Product Overview

IES200-L25-P series, based on a new generation of high-performance hardware and BDROS platform of BDCOM's independent intellectual property rights, supports ACL, QinQ, QoS and static routing. IES200-L25 series with standard DIN-rail shell provides wide-voltage dual power input. IES200-L25-P series uses highly reliable industrial Ethernet ring network technology. The hardware-based algorithm can ensure that the self-healing time of each node is less than 5 milliseconds, and the self-healing time of the ring network is less than 50 milliseconds (typical value)

The PoE model conforms to the IEEE 802.3af/at standard, and supports 30W full-load power supply, centralized power supply management, and PoE terminal detection.

The reliable industrial design of IES200-L25-P series such as electromagnetic compatibility, anti-vibration and anti-shock capability, and IP40 protection, can be widely used in energy, transportation, industrial production, environmental protection, military industries.

# IES200-L25-P SERIES

## Full Gigabit Managed L3-lite Industrial PoE Switch

### Product Characteristics

Lightning protection level: 6KV. IP40 protection, industrial fanless thermal conduction. DIN-rail aluminum alloy shell, which is compact and convenient.

Conforms to IEEE802.3af/at standard, maximum 30W PoE power of single port. Intelligent standard 48V PoE power supply, and self-negotiation power supply according to terminal type. Supports STP/EAPS/ERPS.

Supports node self-healing time less than 5 milliseconds, and ring network self-healing time less than 50 milliseconds (typical value). Supports forming a self-healing ring network between any two ports, and supports multiple independent self-healing rings.

Provides a data packet loss protection mechanism for quickly recovering from failures. Provides hierarchical bandwidth services through rate limiting and traffic shaping in the layer-2 QoS function.

Supports simple network management protocol (SNMP) and cloud-based operating platform (Pallas).

The mean time between failures exceeds 800,000 hours.

## Model Lists



**IES200-L25-2S4P**

- 4-Port Gigabit PoE+
- 2-Port Gigabit SFP



**IES200-L25-2S8P**

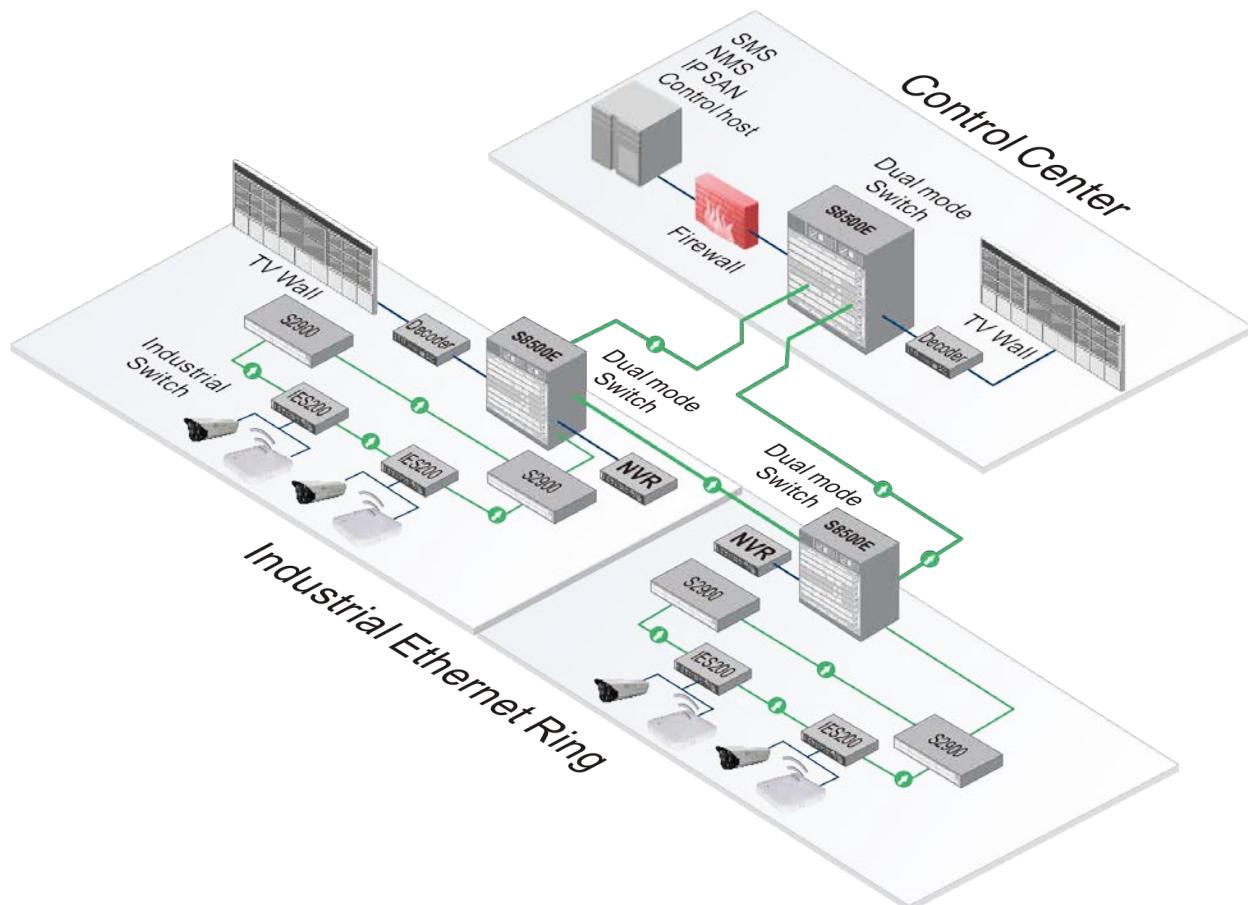
- 8-Port Gigabit PoE+
- 2-Port Gigabit SFP



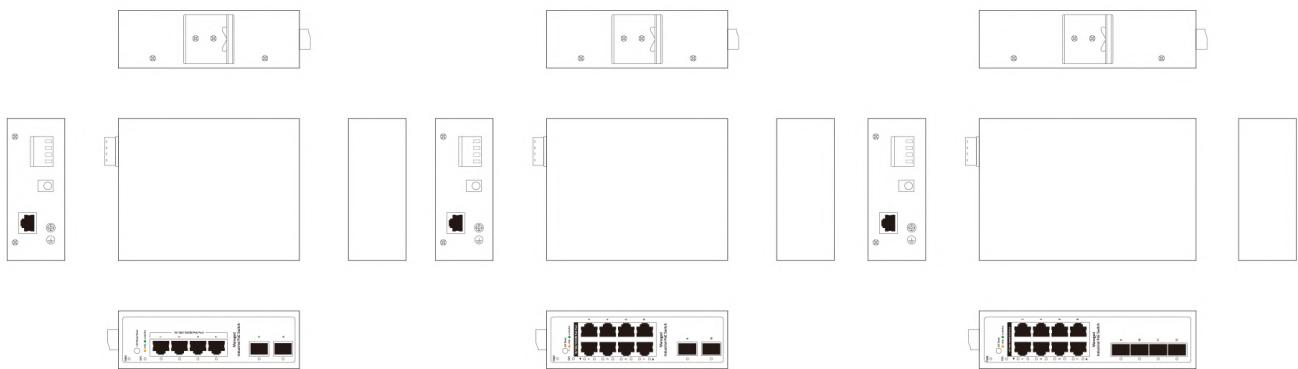
**IES200-L25-4S8P**

- 8-Port Gigabit PoE+
- 4-Port Gigabit SFP

## Application Diagram



# Panel Diagram



## Product Specifications

Item	IES200-L25-2S4P	IES200-L25-2S8P	IES200-L25-4S8P
Gigabit Interface	RJ45	4 PoE+	8 PoE+
	SFP	2	2
Console (RJ45)		1	1
Backplane (Gbps)	56	56	56
Forwarding rate (Mpps)	9	15	18
Chassis	Dimensions (WxDxH)(mm)	138x108x44	138x108x44
	Weight (KG)(empty)	0.7	0.7
Package	Dimensions (WxDxH)(mm)	245x190x60	245x190x60
	Weight(KG)	0.9	0.9
Power consumption	no-load	<12W	<12W
	full-load(with PoE)	140W	260W
Power supply	Dual DC 48~55V (Pheonix) DC 12V (Jack)	Dual DC 48~55V (Pheonix) DC 12V (Jack)	Dual DC 48~55V (Pheonix) DC 12V (Jack)
PoE power budget	120W	240W	240W
Total output BTU (1000BTU/H=293W)	477.82	887.37	887.37
MTBF(H)	>800,000	>800,000	>800,000
Forwarding mode	Store-forward	Store-forward	Store-forward
Flash (MB)	16	16	16
DRAM (MB)	128	128	128
MAC	8K	8K	8K
Buffer size(Mb)	4.1	4.1	4.1
Jumbo frame	9K	9K	9K
Total SVI	10	10	10

# Features

## VLAN

- 4K VLAN entries
- GVRP
- QinQ
- Private VLAN
- Voice VLAN

## Ring protection

- 802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)
- BPDU protection, root protection and ring protection
- EAPS
- G.8032 ERPS

## Multicast

- MVR
- IGMP Snooping
- IGMP Fast Leave
- Multicast group policy and multicast number limit

## IP routing

- Static route
- RIP, OSPF
- 128 routing table

## QoS

- CAR traffic control
- 802.1P/DSCP priority remark
- Multiple queuing algorithms such as SP, WRR or SP+WRR
- IP ACL/ANY/VLAN/COS/
- DSCP/IP Preference based QoS
- Traffic supervision and traffic shaping
- Drop, Redirect

## Security

- Identification and filtering of L2/L3/ L4-based ACL
- Suppression of broadcast, multicast and unknown unicast packet
- Port isolation
- Port security, IP+MAC+port binding
- DHCP snooping, DHCP option82
- IEEE 802.1x authentication
- Radius and TACACS+
- Command line hierarchical protection
- **DHCP**
- DHCP Server/Client/Relay
- DHCP Snooping

## Reliability

- Static/LACP LAG
- Ethernet OAM
- ISSU
- Backup-link
- VRRP

## Management and maintenance

- Console, Telnet, SSH 2.0
- Zero Touch Provisioning (ZTP)
- HTTP/HTTPS
- SNMP v1/v2/v3
- Upload and download files through TFTP/FTP
- Remote Network Monitoring (RMON )
- Syslog
- SPAN, RSPAN

## IPv6

- ICMPv6, DHCPv6, ACLv6, IPv6 Telnet
- IPv6 Neighbor Discovery
- Path MTU Discovery
- MLD Snooping

## ACL

- VLAN ACL
- L2~4 ACL
- IPv4, IPv6 ACL

# Ordering Information

Item	Description
<b>IES200-L25-P Series</b>	
IES200-L25-2S4P	4-Port Gigabit PoE+ 2-Port Gigabit SFP L3-lite Managed PoE Industrial Switch (dual 48~55V DC phoenix PoE power input, 120W PoE budget, single 12V DC jack non-PoE power input; operating temperature: -40~75°C; IP40; DIN-rail installation)
IES200-L25-2S8P	8-Port Gigabit PoE+ 2-Port Gigabit SFP L3-lite Managed PoE Industrial Switch (dual 48~55V DC phoenix PoE power input, 240W PoE budget, single 12V DC jack non-PoE power input; operating temperature: -40~75°C; IP40; DIN-rail installation)
IES200-L25-4S8P	8-Port Gigabit PoE+ 4-Port Gigabit SFP L3-lite Managed PoE Industrial Switch (dual 48~55V DC phoenix PoE power input, 120W PoE budget, single 12V DC jack non-PoE power input; operating temperature: -40~75°C; IP40; DIN-rail installation)

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