BDCOM

IES200-L25-P SERIES

Full Gigabit Managed L3-lite Industrial PoE Switch

IP40 protection 6KV lightning protection

Varied Service Characteristics Versatile IPv6 Solution Complete Security Mechanism

Advanced Hardware Architecture and Industry-leading Port Density

Wide-range working temperature 800,000 hours MTBF

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 DNI-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.

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+
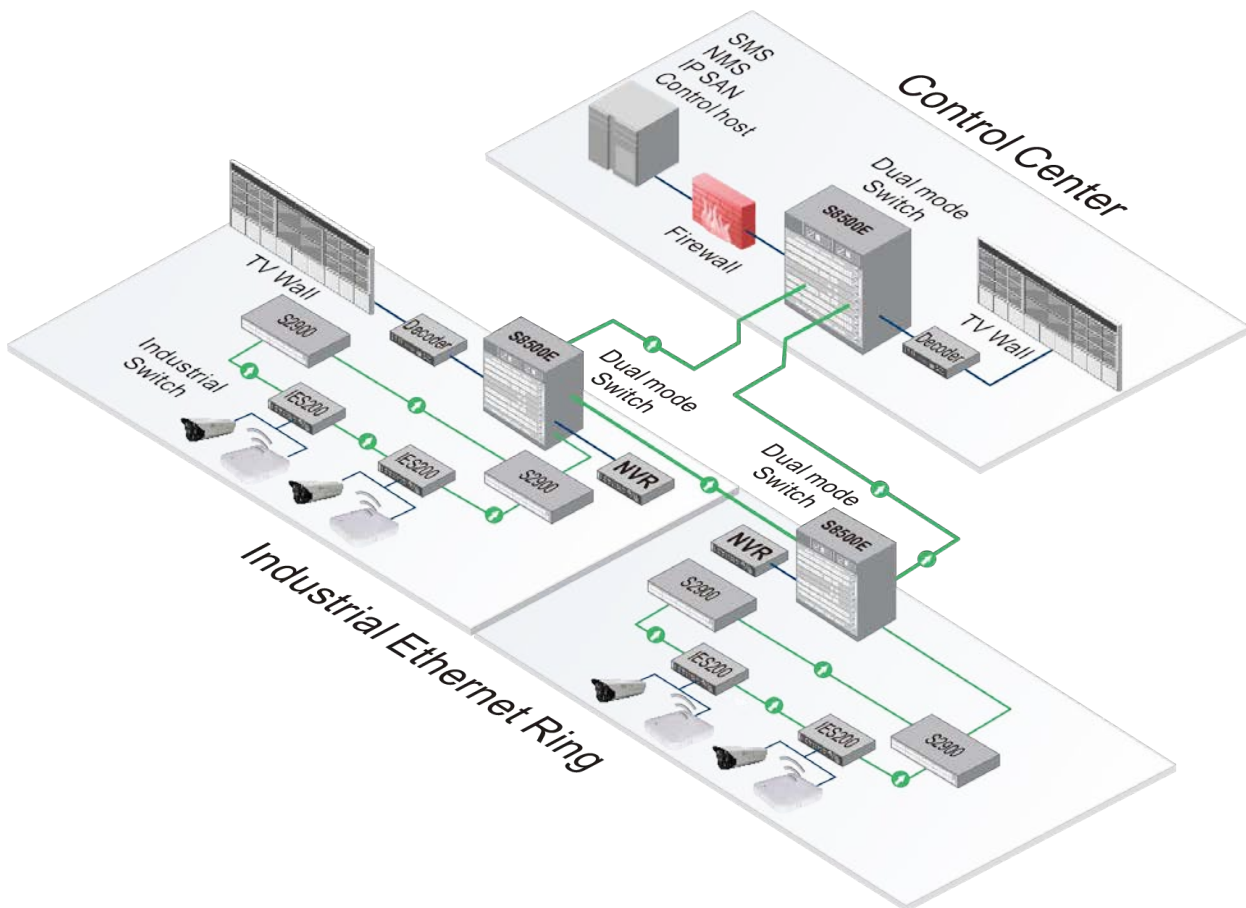- 2-Port Gigabit SFP
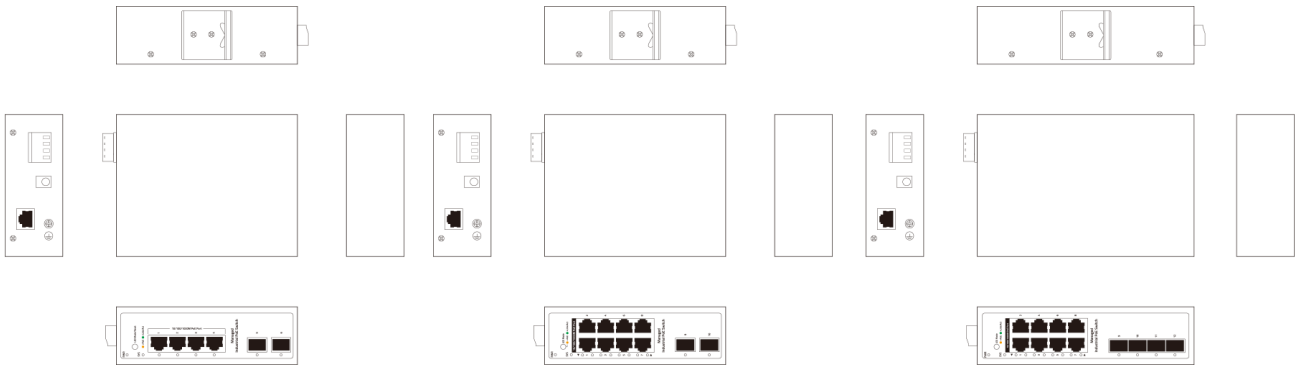
IES200-L25-2S8P

- 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+	8 PoE+
	SFP	2	2	4
Console (RJ45)		1	1	1
Backplane (Gbps)		56	56	56
Forwarding rate (Mpps)		9	15	18
Chassis	Dimensions (WxDxH)(mm)	138x108x44	138x108x44	138x108x44
	Weight (KG)(empty)	0.7	0.7	0.7
Package	Dimensions (WxDxH)(mm)	245x190x60	245x190x60	245x190x60
	Weight(KG)	0.9	0.9	0.9
Power consumption	no-load	<12W	<12W	<15W
	full-load(with PoE)	140W	260W	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 sooping, 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
IES200-L25-P Series	
IES200-L25-2S4P	4-Port Gigabit PoE+ 2-Port Gigabit SFP L3-lite Managed PoE Industrial Switch (dual 48~55V DC pheonix PoE power input, 120W PoE budget, single 12V DC jack non-PoE power input; operating temperature: -40~75℃; 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 pheonix PoE power input, 240W PoE budget, single 12V DC jack non-PoE power input; operating temperature: -40~75℃; 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 pheonix PoE power input, 120W PoE budget, single 12V DC jack non-PoE power input; operating temperature: -40~75℃; IP40; DIN-rail installation)

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