



# IES200 SERIES

## Full Gigabit Managed Industrial Switch



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-V25 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-V25 series with standard DIN-rail shell provides wide-voltage dual power input. IES200-V25 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-V25 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 (COP).
- The mean time between failures exceeds 800,000 hours.

# Model lists



**IES200-V25-2S4T**  
2 Gigabit SFP ports + 4 Gigabit TX ports

**IES200-V25-2S4P**  
2 Gigabit SFP ports + 4 Gigabit POE ports



**IES200-V25-2S8T**  
2 Gigabit SFP ports + 8 Gigabit TX ports

**IES200-V25-2S8P**  
2 Gigabit SFP ports + 8 Gigabit POE ports



**IES200-V25-4S10T**  
4 Gigabit SFP ports + 10 Gigabit TX ports

**IES200-V25-4S2T8P**  
4 Gigabit SFP ports + 2 Gigabit TX ports + 8 Gigabit POE ports

## Product Specifications



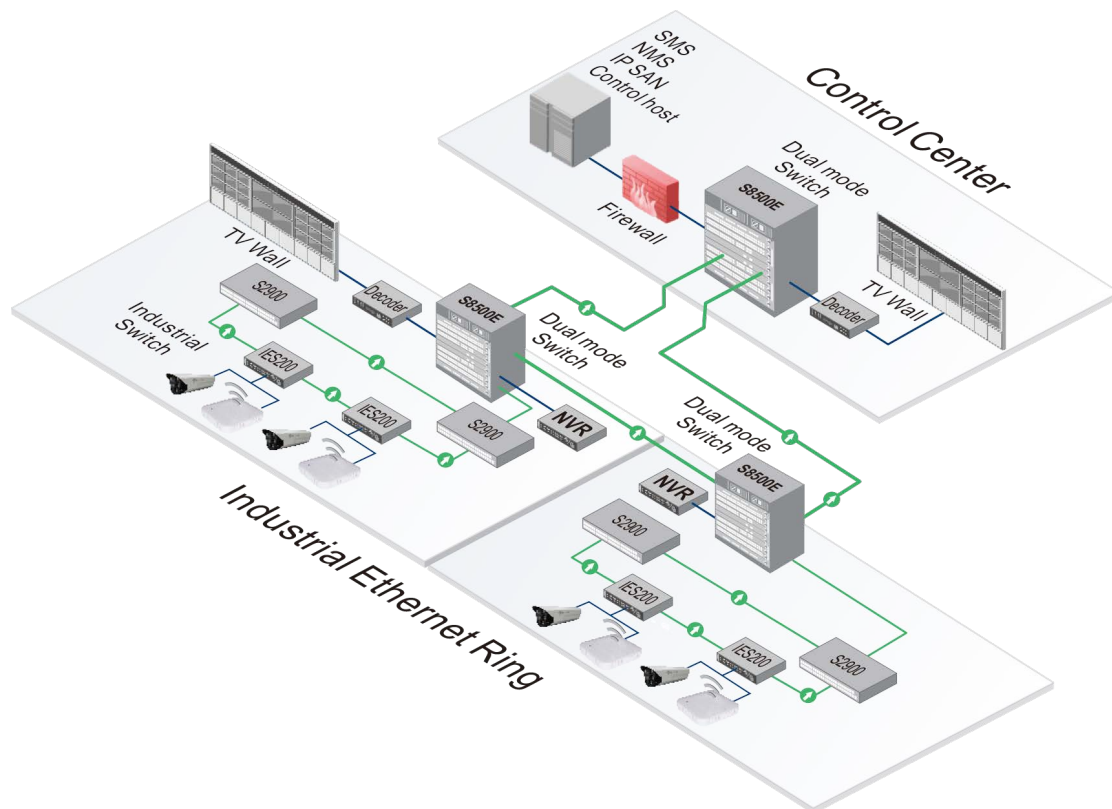
Item	IES200-V25-2S4T	IES200-V25-2S8T	IES200-V25-4S10T
Power input	Dual DC 12~ 55V		
Operating temperature	-40~85℃		
Item	IES200-V25-2S4P	IES200-V25-2S8P	IES200-V25-4S2T8P
POE power	120W	240W	240W
Power input	Dual DC 48~55V		
Operating temperature	-40~75℃		
Switching capacity	256Gbps		
Forwarding rate	96Mpps		
MAC Switching	Static configuration and dynamic learning of MAC address Check and clear MAC address Configuring of MAC address aging time Limit on MAC address learning number MAC address filtering function IEEE 802.1AE MacSec		
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 ERPS
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit
IP routing	Static routing
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery MLD v1/v2 MLD Snooping
DHCP	DHCP Relay DHCP Client DHCP Snooping
ACL	L2/L3/L4 ACL IPv4, IPv6 ACL VLAN ACL
QoS	Traffic classification of each field of L2/L3/L4 protocol headers CAR traffic control 802.1P/DSCP priority remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping
Security features	Identification and filtering of L2/L3/L4-based ACL Defend against DOS or TCP attacks 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 BDTacacs+ authentication Command line hierarchical protection
Reliability	Static/LACP UDLD Ethernet OAM ISSU
Management and maintenance	Console, Telnet, SSH 2.0 Zero Touch Provisioning (ZTP) Browser-based WEB management SNMP v1/v2/v3 Upload and download files through TFTP Remote Network Monitoring (RMON )

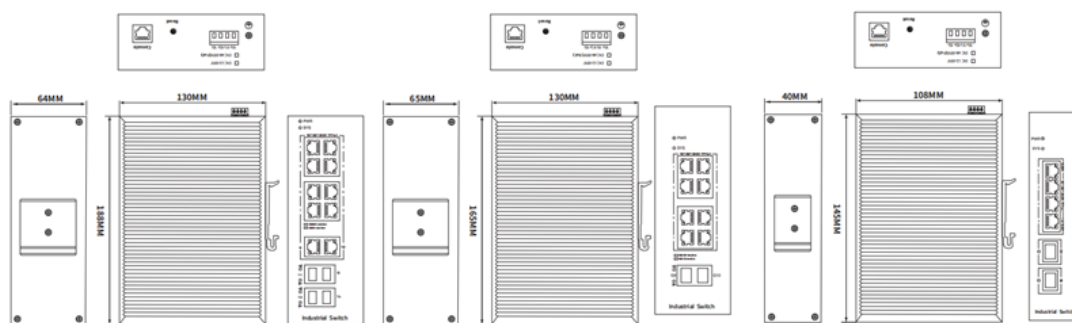
## Application Diagram

### Panel Diagram





## IES200-V25 Series:



## Ordering Information

Item	Description
<b>IES200-V25 Series</b>	
IES200-V25-2S4T	Managed industrial switch with 2 Gigabit SFP ports and 4 Gigabit TX ports; industrial DC 12~55V redundant dual power input; operating temperature: -40~85°C; lightning protection level of 6KV; IP40; DIN-rail installation.
IES200-V25-2S8T	Managed industrial switch with 2 Gigabit SFP ports and 8 Gigabit TX ports; industrial DC 12~55V redundant dual power input, operating temperature: -40~85°C; lightning protection level of 6KV; IP40; DIN-rail installation.
IES200-V25-4S10T	Managed industrial switch with 4 Gigabit SFP ports and 10 Gigabit TX ports; industrial DC 12~55V redundant dual power input, operating temperature: -40~85°C; lightning protection level of 6KV; IP40; DIN-rail installation.
IES200-V25-2S4P	Managed industrial switch with 2 Gigabit SFP ports and 4 Gigabit POE ports; industrial DC 48~55V redundant dual power input; operating temperature: -40~75°C; lightning protection level of 6KV; IP40; DIN-rail installation.
IES200-V25-2S8P	Managed industrial switch with 2 Gigabit SFP ports and 8 Gigabit POE ports; industrial DC 48~55V redundant dual power input, operating temperature: -40~75°C; lightning protection level of 6KV; IP40; DIN-rail installation.
IES200-V25-4S2T8P	Managed industrial switch with 4 Gigabit SFP ports, 2 Gigabit TX ports and 8 Gigabit POE ports; industrial DC 48~55V redundant dual power input, operating temperature: -40~75°C; lightning protection level of 6KV; IP40; DIN-rail installation.