



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



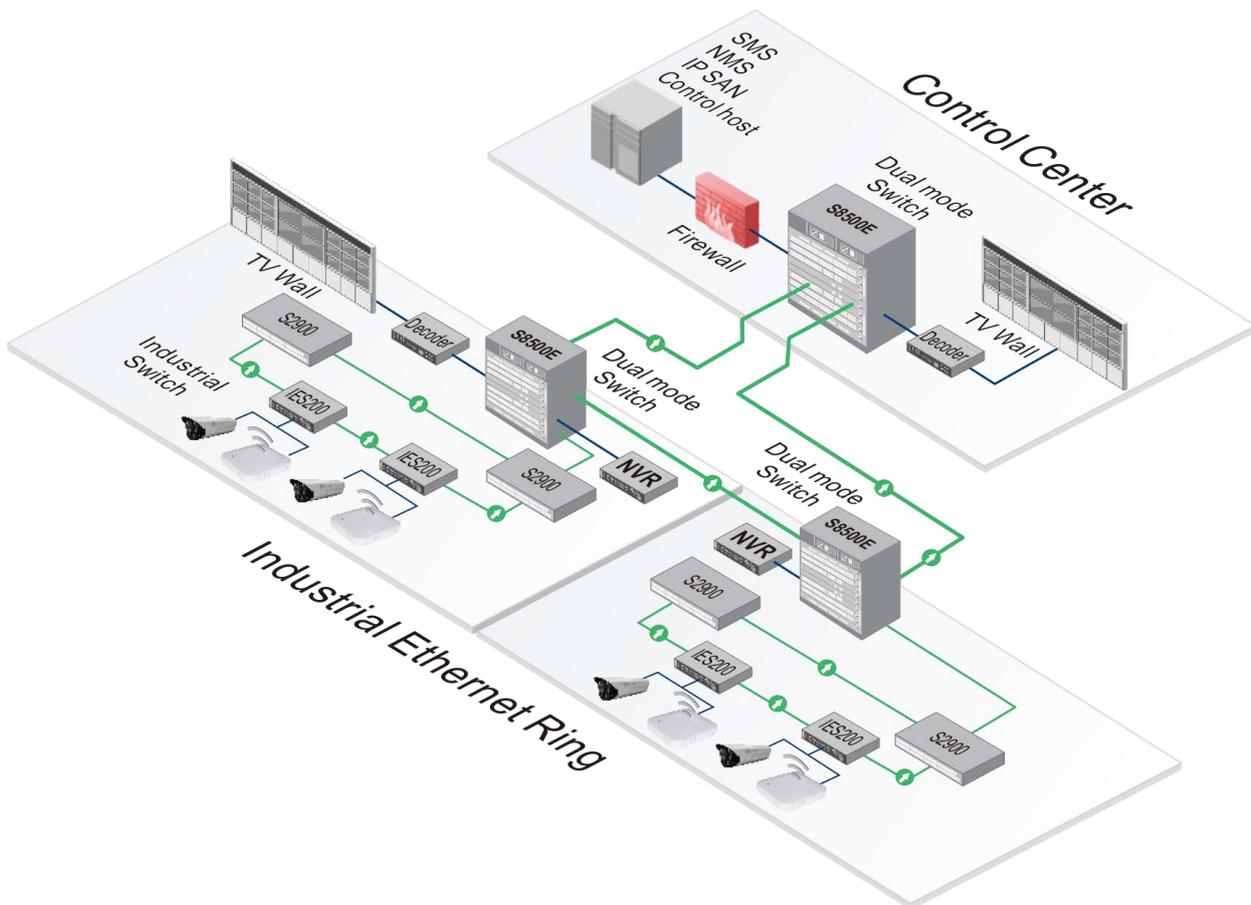
IES200-V25-4S10T

- 4 Gigabit SFP ports
- 10 Gigabit TX ports

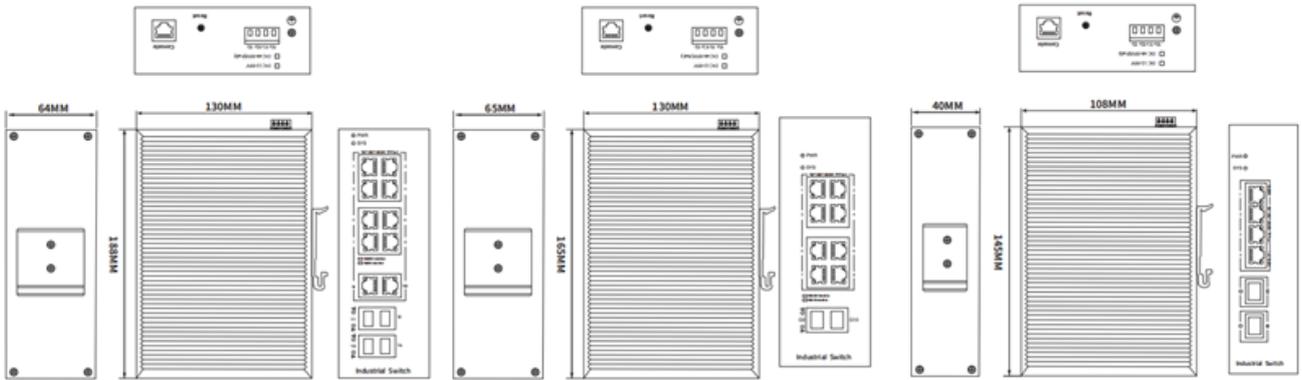
IES200-V25-4S2T8P

- 4 Gigabit SFP ports
- 2 Gigabit TX ports
- 8 Gigabit POE ports

Application Diagram



Panel Diagram



Product Specifications

Item		IES200-V25-2S4T	IES200-V25-2S8T	IES200-V25-4S10T
Interface		4 GE TX ports 2 100/1000M SFP ports	8 GE TX ports 2 100/1000M SFP ports	10 GE TX ports 4 100/1000M SFP ports
Console		1 RJ45 port	1 RJ45 port	1 RJ45 port
Backplane		56 Gbps	56 Gbps	56 Gbps
Forwarding rate		9 Mpps	15 Mpps	21 Mpps
Chassis	Dimensions (WxDxH)(mm)	145x108x40	165x130x65	188x130x64
	Weight (KG)(empty)	0.78	1.04	1.24
Package	Dimensions (WxDxH)(mm)	175*130*55	242*207*86	242*207*86
	Weight(KG)	1.3	1.5	1.8
Power consumption	no-load	<12W	<12W	<12W
	full-load	18W	18W	20W
Power supply		Dual DC 12~ 55V	Dual DC 12~ 55V	Dual DC 12~ 55V
Total output BTU (1000BTU/H=293W)		61.43	61.43	68.26
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	4	4
Jumbo frame		9K	9K	9K
Total SVI		10	10	10

Product Specifications

Item	IES200-V25-2S4P	IES200-V25-2S8P	IES200-V25-4S2T8P
Interface	4 GE POE ports 2 100/1000M SFP ports	8 GE POE ports 2 100/1000M SFP ports	8 GE POE ports 2 GE TX ports 2 100/1000M SFP ports
Console	1 RJ45 port	1 RJ45 port	1 RJ45 port
Backplane	56 Gbps	56 Gbps	56 Gbps
Forwarding rate	9 Mpps	15 Mpps	21 Mpps
Chassis	Dimensions (WxDxH)(mm)	145x108x40	188x130x64
	Weight (KG)(empty)	0.8	1.3
Package	Dimensions (WxDxH)(mm)	175*130*55	242*207*86
	Weight(KG)	1.3	1.8
Power consumption	no-load	<12W	<15W
	full-load(with POE)	140W	260W
Power supply	Dual DC 48~ 55V	Dual DC 48~ 55V	Dual DC 48~ 55V
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	4	4
Jumbo frame	9K	9K	9K
Total SVI	10	10	10

Features

VLAN

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

Ring protection

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

Multicast

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

IP routing

- Default Gateway

DHCP

- DHCP Client
- DHCP Snooping

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 features

- 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 BDTacacs authentication
- Command line hierarchical protection

Reliability

- Static/LACP
- Ethernet OAM
- ISSU
- Backuplink

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)

IPv6

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

ACL

- L2/L3/L4 ACL
- IPv4, IPv6 ACL
- VLAN ACL

Ordering Information

Item	Description
IES200-V25 Series	
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.

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