IES200-V25-4S2T8P

Full Gigabit Managed Industrial 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 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 20 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.

Product Overview

IES200-V25-4S2T8P, 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-V25-4S2T8P with standard DIN-rail shell provides wide-voltage dual power input. IES200-V25-4S2T8P 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 20 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-V25-4S2T8P 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.
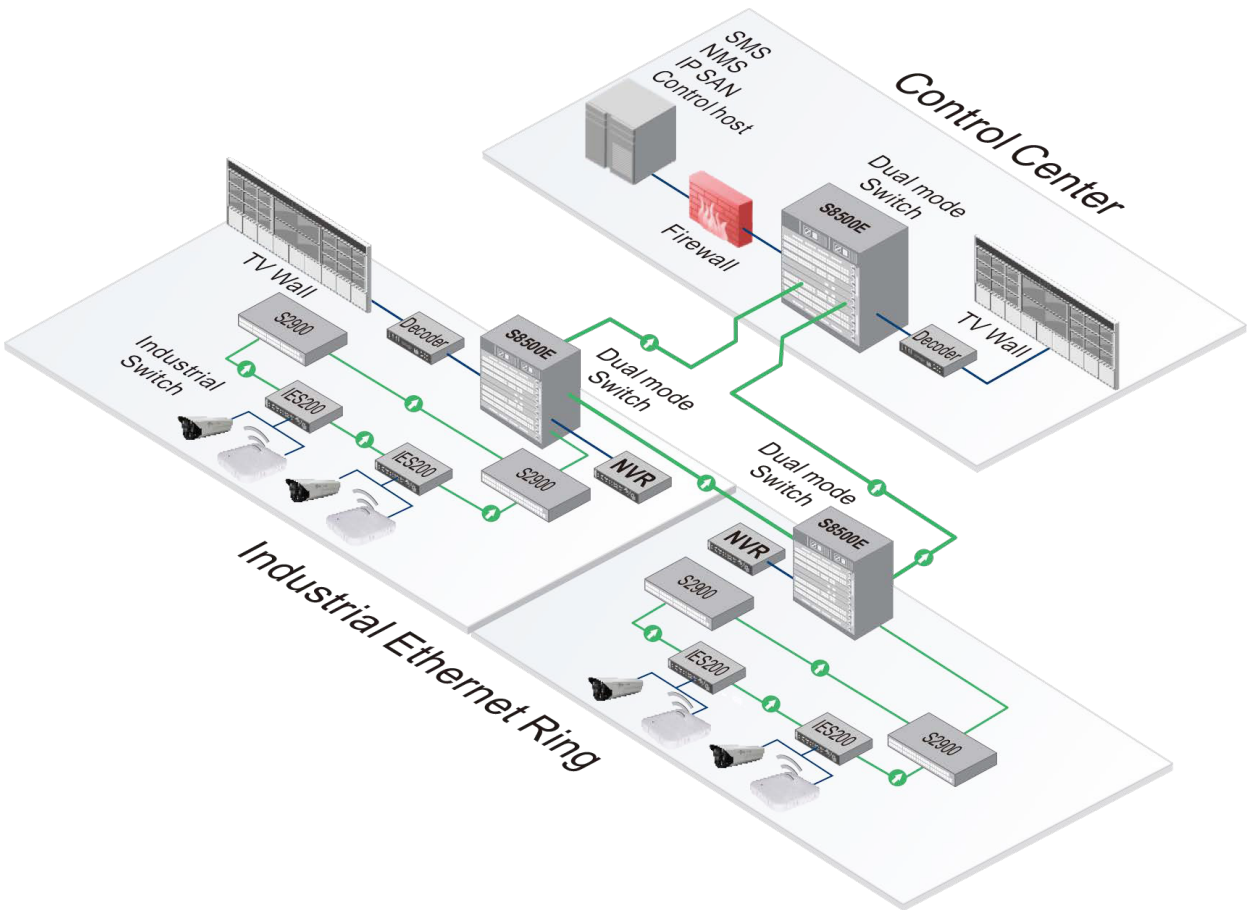
Model Lists

IES200-V25-4S2T8P

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

Application Diagram

Product Specifications

Item		IES200-V25-4S2T8P
Interface		8 GE POE ports 2 GE TX ports 4 100/1000M SFP ports
Console		1 RJ45 port
Backplane		56 Gbps
Forwarding rate		21 Mpps
Chassis	Dimensions (WxDxH)(mm)	188x130x64
	Weight (KG)(empty)	1.3
Package	Dimensions (WxDxH)(mm)	242*207*86
	Weight(KG)	1.8
Power consumption	no-load	<15W
	full-load(with POE)	260W
Power supply		Dual DC 48~ 55V
POE power budget		240W
Total output BTU (1000BTU/H=293W)		887.37
MTBF(H)		>800,000
Forwarding mode		Store-forward
Flash (MB)		16
DRAM (MB)		128
MAC		8K
Buffer size(KB)		4,000
Jumbo frame		9.6K
Total SVI		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

(PoE L2 Switch) supports
- Support IEEE802.3, IEEE802.3u and IEEE802.3ab standards.
- IEEE802.3at standard.
- Auto-Negotiation and Auto-MDI/MDI-X.
- Support IEEE 802.3az standards.
- Support (IEEE 802.3x) for full duplex datatranmission-receiving.
- IGMP Snooping v1/v2/v3.
- POE Watch Dog.
- GVRP.
- SNMP v1/v2/v3.
- WEB, Telnet, CLI, SSHmanagement.
- Syslog.
- Static Route.
- Ring Network as ERPS.
- Support Link Backup recovery time less than· 20ms.

- Network Management System (NMS).
- Support CPU, Cable, Ping Test.
- Supports DC current and can support at least 2 redundant power supplies.
- The operation status of the device · Port security, IP+MAC+port binding such as Power, Link/Act. and Poe.
- The device support CCC, CE, FCC, RoHS.
- IEC60068-2-27 (Shock),
- IEC60068-2-32 (Free Fall)
- and IEC60068-2-6 (Vibration)
- IEC61000-4-2(ESD),
- IEC61000-4-3(RS),
- IEC61000-4-4(EFT),
- IEC61000-4-5(Surge),
- IEC61000-4-6(radio frequency transmission),
- IEC61000-4-8(power frequency magnetic field),
- IEC61000-4-9(pulsed magnet field),
- IEC61000-4-10(damped oscillation),
- IEC61000-4-12/18(shockwave),
- IEC61000-4-16(common-mode transmission).
- FCC Part15 CISPR(EN55032):Class A.
- FCC Part15 CISPR22(EN55022):Class A.
- IEC61000-6-2(Common Industrial Standard).

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