BDCOM

Shanghai Baud Data Communication Co., Ltd

Switch Series

BDCOM IES200-L25-8P4S-H
Full Gigabit Managed Industrial Switch

IES200-L25-8P4S-H Full Gigabit L3-lite Managed Industrial PoE++ Switch

Product Overview

IES200-L25-8P4S-H switch, based on a new generation of high-performance hardware and BDROS platform of BDCOM's independent intellectual property rights, supports a comprehensive set of features including ACL, QinQ, QoS, and Static Routing. IES200-L25-8P4S-H switch features standard DIN-rail housing and provides wide-voltage dual power input. With high-reliability industrial Ethernet ring network technology, the hardware-based algorithm ensures self-healing times of less than 5 milliseconds for each node and ring network self-healing times of less than 50 milliseconds (typical value).

IES200-L25-8P4S-H complies with IEEE 802.3af/at/bt standards, providing 2-Port 90W and 6-Port 30W PoE power output with centralized power management and PoE device detection.

IES200-L25-8P4S-H features reliable industrial-grade designs, including electromagnetic compatibility, anti-vibration and anti-shock capabilities, aluminum alloy housing, and IP40 protection. It is widely applicable in industries such as energy, transportation, industrial manufacturing, environmental protection, and defense.



IES200-L25-8P4S-H

Product Characteristics

- IP40 protection, industrial fanless thermal conduction.
- Utilizes a compact and convenient DIN aluminum alloy housing.
- Compliant with IEEE802.3af/at/bt standards, with a maximum PoE power of 90W.
- Intelligent standard 48V PoE supply, auto-negotiates power delivery based on terminal type.

- Supports industrial Ethernet rings with STP/RSTP/MSTP.
- Industrial Ethernet ring network supports self-healing node intervals of less than 5 milliseconds, with ring self-healing times of 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.
- Delivers tiered bandwidth services in Ethernet services through rate limiting and traffic shaping within Layer 2 QoS features.
- Supports SNMP network management platforms.
- Mean Time Between Failures (MTBF) exceeds 800,000 hours.

Product Specifications

Item	**IES200-L25-8P4S-H**
Switching Capacity	56Gbps
Forwarding Rate	18Mpps
Dimensions	165x108x44mm
Power input	Dual industrial-grade DC redundant input (DC48~55V phoenix input)
PoE output	Port 1-2: 90W Port 3-8: 30W
PoE budget	240W
Operating temperature	Temperature: -40~75°C Humidity: 5%~95% non-condensing
Storage Environment	Temperature: -40~85°C Humidity: 5%~95% non-condensing
Standards	IEEE 802.1 Working Group IEEE 802.3 Working Group IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z Gigabit 1000BASE-SX/LX IEEE 802.3ab Gigabit 1000BASE-T IEEE 802.3af PoE

	IEEE 802.3at PoE+ IEEE 802.3bt PoE++ IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1ad Q-in-Q IEEE 802.1X port authentication network control IEEE 802.1ab LLDP and LLDP-MED IEEE 802.3ah OAM IEEE 802.3az EEE(Energy Efficient Ethernet) RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 2328 OSPF v2 RFC 1058 RIP v1 RFC 2453 RIP v2
MAC switching	8K MAC entries Static configuration and dynamic MAC learning MAC browsing and removal Configurable aging time of the MAC address Limited number of learnable MAC addresses MAC filtration Black-hole MAC list

Jumbo frame	9K
VLAN	4K VLAN IDs, 4094 active VLAN, 64 SVI GVRP 1:1 and N:1 VLAN Mapping QinQ and selective QinQ Private VLAN Voice-VLAN
STP	802.1d STP, 802.1w RSTP, 802.1s MSTP BPDU protection, root protection and ring protection L2PT for BPDU
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit Multicast filtering MVR snooping in certain port and VLAN
IPv4	Static routing, RIP, OSPF
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet, IPv6 QoS IPv6 Neighbor Discovery Path MTU Discovery MLD Snooping
DHCP	DHCP server, client, relay, snooping
ACL	L2-4 ACL IPv4, IPv6 ACL VLAN ACL
QoS	Traffic classification of port/L2~4 protocol headers/VLAN/CoS/DSCP CAR traffic control 802.1P/DSCP priority mapping and remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping 8 queues per port

Security	L2~L4 ingress/egress ACL Anti-DOS/IP spoofing/TCP/ping/SYN/ICMP flood attacks Broadcast/multicast/unknown-unicast storm-control Port isolation Port Security, MAC address limitation, IP+MAC+port binding DHCP Snooping, DHCP Option 82 DAI(Dynamic ARP Inspection) IPSG(IP Source Guard) IEEE 802.1x certification MAC-based authentication AAA Radius, TACACS+ Multiple user privileges
Reliability	Static and LACP link aggregation EAPS, ERPS ISSU
Management	CLI: Console, Telnet, SSHv1/2 Web-GUI: HTTP, HTTPS/SSL Reset button SNMP v1/v2c/v3, RMON, SNMP alarm/inform/traps Upload and download of FTP/TFTP files Debugging Syslog for alarm/notification/command/debug NTP SPAN, RSPAN (1:1 and N:1 mirror) LLDP, LLDP-MED ZTP（Zero Touch Provisioning） Optical DDM Ethernet cable diagnosis

Ordering Information

Item	Description

IES200-L25-8P4S-H	2-port Gigabit PoE++ 6-port Gigabit PoE+ 4-port Gigabit SFP Lite-L3 Managed Industrial Switch; dual industrial-grade DC redundant power inputs (DC48~55V industrial phoenix input); 240W PoE budget; operating temperature: -40~75°C; 6KV lightning protection; IP40; DIN-rail installation (power cable not included).

For More Information

For more information about BDCOM IES200-L25 Series, please contact your local BDCOM account representative.

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