BDCOM

Shanghai Baud Data Communication Co., Ltd

Switch Series

BDCOM IES200 Series
Full Gigabit Managed Industrial Switch

# IES200 Series Full Gigabit L3-lite Managed Industrial Switch

Product Overview

IES200-L25 series, 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 series 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 series 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.
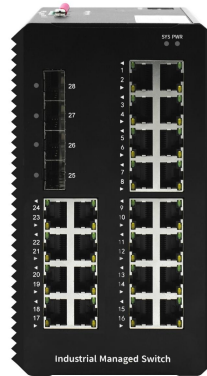
IES200-L25-16T8S   IES200-L25-24T4S

Product Characteristics

- IP40 protection, industrial fanless thermal conduction.

- 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-L25-16T8S	IES200-L25-24T4S
Switching Capacity	56Gbps	56Gbps
Forwarding Rate	36Mpps	42Mpps
Dimensions	186.6x122.7x86mm	186.6x122.7x86mm
Power input	Dual industrial-grade DC DC12 ~ 55V redundant input	
Operating Environment	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 802.3x 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 Series	
IES200-L25-16T8S	16-port Gigabit RJ45 + 8-port Gigabit SFP Lite-L3 Managed Industrial Switch; dual industrial-grade DC12~55V redundant power inputs; operating

	temperature: -40~75°C; lightning protection level of 6KV; IP40; DIN-rail installation.
IES200-L25-24T4S	24-port Gigabit RJ45 + 4-port Gigabit SFP Lite-L3 Managed Industrial Switch; dual industrial-grade DC12~55V redundant power inputs; operating temperature: -40~75°C; lightning protection level of 6KV; IP40; DIN-rail installation.

For More Information

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

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