

IMS3200

Industrial Managed Switch

L2 managed, 4/8/12x10/100/1000Base-T + 2/4/6/12x1G SFP








Overview






IMS3200 Industrial Managed Switch are fully managed L2 switches, adopt store-forward architecture, fan-less, and energy-saving design, providing 4/8/12-port 10/100/1000M RJ45 port and 2/4/6/12-port 1000/100M SFP port. Full-series design with protection against lightning, anti-static, and operate in -40°C~85°C for harsh environments; such as industrial automation, public security, power system, intelligent transportation systems (ITS), shipping, mining, and water conservancy fields.

Features

- Support STP/RSTP/MSTP, ERPS Fast ring protocol
- Supports flow control, loop protection, link aggregation, storm suppression, mirroring and DDM
- Support IEEE802.1Q VLAN, QinQ VLAN, protocol VLAN, Voice VLAN, Private VLAN, GVRP
- Support IGMP Snooping, MLD Snooping, suit for HD Video surveillance and video conference
- Support Web, CLI, SNMP (V1/V2/V3), Telnet management
- Support HTTPS、SSH encryption, making management more secure
- Supports RMON, system logs, and traffic statistics to facilitate network optimization
- Supports LLDP, making network maintenance simple
- Support DHCP Snooping, Qos, ACL
- Support 802.1X certification, Radius and Tacacs+ security management
- Supports CPU monitoring, Ping detection, Traceroute detection
- Support PoE Management
- Providing 6/10/14/16/24-port products, 56G switch capacity
- Support 1000/100M Auto negotiation on SFP Port
- Adopt Industrial Level-4 design, support EFT/ESD/Surge protection
- Working Temperature -40~85°C
- 12~58Vdc dual power input
- Complete LED indicators for quickly identify the working status
- IP40 anti-oxidation aluminum alloy, weight lighter and head release rapidly

Product List

Model	Description
 <p>IMS3210-4T2S</p>	<p>Port: 4x 10/100/1000M RJ45, 2x SFP Switch Capacity: 56G Packet forwarding Rate: 8.92Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 138x107x56mm</p>
 <p>IMS3210-4P2S</p>	<p>Port: 4x 10/100/1000M RJ45 (PoE), 2x SFP Switch Capacity: 56G Packet forwarding Rate: 8.92Mpps MAC address: 8k Buffer: 4M Power Input: 44~58Vdc dual input Working Temperature: -40~85°C Size: 138x107x56mm</p>
 <p>IMS3210-8T2S</p>	<p>Port: 8x 10/100/1000M RJ45, 2x SFP Switch Capacity: 56G Packet forwarding Rate: 14.88Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 138x107x56mm</p>
 <p>IMS3210-8P2S</p>	<p>Port: 8x 10/100/1000M RJ45 (PoE), 2x SFP Switch Capacity: 56G Packet forwarding Rate: 14.88Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 138x107x56mm</p>
 <p>IMS3214-8T4S</p>	<p>Port: 8x 10/100/1000M RJ45, 4x SFP Switch Capacity: 56G Packet forwarding Rate: 14.88Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 170x120x60mm</p>

 <p>IMS3214-8T4S</p>	<p>Port: 8x 10/100/1000M RJ45 (PoE), 4x SFP Switch Capacity: 56G Packet forwarding Rate: 14.88Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 170x120x60mm</p>
 <p>IMS3214-8T6S</p>	<p>Port: 8x 10/100/1000M RJ45, 6x SFP Switch Capacity: 56G Packet forwarding Rate: 14.88Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 170x120x60mm</p>
 <p>IMS3214-8P6S</p>	<p>Port: 8x 10/100/1000M RJ45 (PoE), 6x SFP Switch Capacity: 56G Packet forwarding Rate: 14.88Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 170x120x60mm</p>
 <p>IMS3224-12S4T</p>	<p>Port: 12x 10/100/1000M RJ45, 4x SFP Switch Capacity: 56G Packet forwarding Rate: 23.8Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 170x120x74mm</p>
 <p>IMS3224-12T12S</p>	<p>Port: 12x 10/100/1000M RJ45, 12x SFP Switch Capacity: 56G Packet forwarding Rate: 35.7Mpps MAC address: 8k Buffer: 4M Power Input: 12~58Vdc dual input Working Temperature: -40~85°C Size: 170x120x74mm</p>

Technical Specifications

Model	IMS3210	IMS3214	IMS3224
Performance			
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1Q VLAN, IEEE802.1d, IEEE802.1w, IEEE802.1s		
Forwarding mode	Store and Forward		
Switch Capacity	56Gbps/non-blocking		
Packet forwarding Rate	1.488Mpps*N (N=1G port Numbers)		
MAC Address	8k		
Buffere	4M		
Jumbo Frame	10Kb		
Ports			
Copper Port	10/100/1000M RJ45 Cat5/cat6 100M		
Fiber Port	1000/100M SFP Slot OM1/OM2 550m, OS1/OS2 up to 120km		
Console	RS232 (RJ45)		
PoE			
Standard	IEEE802.3af/at		
Pin Assignment	1/2+, 3/6-		
PoE Budget	≤30W each port		
Electrical characteristics			
Power Input	12~58Vdc (non-PoE), 44~58Vdc (PoE)		
Power Consumption	<8W	<10W	<20W
Power Connector	Terminal Block, dual input, reverse connection protection		
Reverse connection	support		
Relay	support		
Physical characteristics			
Housing	Aluminum Alloy, IP40 protection		
Installation	DIN rail (Default), Wall-mounted, Rack mounted (Optional)		
Heat Release	Natural		
Size	138x107x56mm	170x120x60mm	170x120x74mm
Environment			
Working Temperature	-40°C ~ 85°C		
Storage temperature	-40°C ~ 85°C		
Relative Humidity	5%-95% (no condensation)		

Certification	
Safety	EN 62368
EMC	EN 55032 Class A, FCC part 15 Subpart B Class A EN 61000-3-2 Class A EN 61000-3-3 Class A EN 61000-4-2 Level 4 Contact: 8kV ,Air: +15kV EN 61000-4-3 Level 4 EN 61000-4-4 Level 4 Power: ±4kV; Signal: ±2kV EN61000-4-5 Power: 6kV, Copper: Comm 4kV, diff. 2kV EN 61000-4-6 Level 3 EN 61000-4-8 Level 4 30A/m EN 61000-4-11 Voltage dip/interruption
RoHS	RoHS 2.0
Reliability	
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Software Feature

L2 Feature	
Port Features	IEEE802.3x Flow control, Interface counters Storm control, Port Isolate, DDM
Link Aggregation	Static aggregation, Dynamic aggregation (LACP)
Mac-address table	IEEE 802.1q, MAC 8K Static mac-address, Dynamic mac-address, Security mac-address, IVL mode
VLAN	4094 VLAN, Port-Base VLAN, Access/Trunk/Hybrid Port Protocol VLAN, Voice VLAN, Private VLAN, GVRP
Port Mirror	Port-based, VLAN-based, Flow-based
Spanning Tree	STP/RSTP/MSTP
ERPS(G.8032)	Single ring, Sub-Ring, Multi-ring, Load balance, Recovery Time < 50ms
Loop Protection	Support
Multicast	IGMP V1 Snooping, IGMP V2 Snooping, IGMP V3 Snooping, Source port check, IGMP Fast Leave, IGMP Filter, IGMP Agent
MLD Snooping	MLD V1 Snooping, MLD V2 Snooping, MLD Snooping MLD Fast Leave, MLD Filter, MLD Proxy
MVR	Static mode, Dynamic mode, Fast Leave
QinQ	VLAN-based QinQ, 1:1 VLAN Mapping
LLDP	LLDP, LLDP-MED
Security	
QoS	QoS Class, Remarking, SP, WRR, SP+WRR queue scheduling Ingress Port-based Rate-limit, Ingress Priority-based Rate-limit Egress Port-based Rate-limit, Egress Queue-based Rate-limit Policy-based QoS, Storm Control IEEE 802.1p 8 active priorities queues for per port
ACL	ACL (IP Standard ACL), IPV4/IPV6 MAC extend ACL, IP extend ACL MAC extend ACL, IP extend ACL Support log, redirection, mirroring, speed limit
Dot1x	Port Access Control, User Access Control, Mac-address Access Control, RADIUS Server
IP Source Guard	Dynamic table entries, static table entries
ARP Inspection	Dynamic table entries, static table entries
Port Security	Supported
Access Management	Supported
Management	

User management	Password protection
SNMP	SNMP V1/v2C/V3
RMON	Statistics Group, History Group, Alarm Group, Events Group
Web	Web management, support HTTP V1.1, HTTPS
IPV4/IPV6	Support
PoE Management	IEE802.3af/at, power management (Class mode, energy-saving mode, static mode)
Firmware Upgrade	support
Syslog/Debug	Support
Diagnosis	ping(ipv4), ping(ipv6), Trace route(ipv4), Trace route(ipv6)
Application	
NTP	NTP Client
DHCP Client	support
DHCP Snooping	support
TFTP	TFTP Client
Telnet	Telnet Server
SSH	SSH Server

Order Information

Model No.	Description
IMS3210-4T2S	L2, 4x 10/100/1000M RJ45, 2x SFP
IMS3210-4P2S	L2, 4x 10/100/1000M PoE, 2x SFP
IMS3210-8T2S	L2, 8x 10/100/1000M RJ45, 2x SFP
IMS3210-8P2S	L2, 8x 10/100/1000M PoE, 2x SFP
IMS3214-8T4S	L2, 8x 10/100/1000M RJ45, 4x SFP
IMS3214-8P4S	L2, 8x 10/100/1000M PoE, 4x SFP
IMS3214-8T6S	L2, 8x 10/100/1000M RJ45, 6x SFP
IMS3214-8P6S	L2, 8x 10/100/1000M PoE, 6x SFP
IMS3224-12T4S	L2, 12x 10/100/1000M RJ45, 4x SFP
IMS3224-12T12S	L2, 12x 10/100/1000M RJ45, 12x SFP

Notes: SFP, AC-DC power supply, wall-mounted, Rack-mounted kits need to order additionally

Related Products

SFP modules

Model No.	Description
SFP-M1285L-05I	SFP 1.25G MM 850nm LC 550m DDM, Industrial Grade
SFP-S1213L-20I	SFP 1.25G SM 1310nm LC 20km DDM, Industrial Grade
SFP-B1235L-20I	SFP 1.25G SM TX1310/RX1550nm LC 20km DDM, Industrial Grade
SFP-B1253L-20I	SFP 1.25G SM TX1550/RX1310nm LC 20km DDM, Industrial Grade

Notes: 40/60/80km available

DIN rail Power Supply

Model No.	Description
HDR-15-24	DIN rail 15W, 85~264Vac input, 24Vdc 0.63A output
HDR-30-24	DIN rail 36W, 85~264Vac input, 24Vdc 1.5A output
HDR-60-24	DIN rail 60W, 85~264Vac input, 24Vdc 2.5A output
NDR-75-48	DIN rail 75W, 90~264Vac input, 48Vdc 1.6A output
NDR-120-48	DIN rail 120W, 90~264Vac input, 48Vdc 2.5A output
NDR-240-48	DIN rail 240W, 90~264Vac input, 48Vdc 5A output
NDR-480-48	DIN rail 480W, 90~264Vac input, 48Vdc 10A output

Installation Kits

Model No.	Description
 TK12	Wall-mounted kit, 118*18*16mm, φ3.5mm L=12mm
 A01	Side DIN rail kit, 84*81.5*8.5mm, φ3.5mm L=6mm
 CK01	Rack-mounted bracket, 483*215*130mm



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