

## ISCOM2109 & ISCOM2109A Managed L2 Ethernet Switch

ISCOM2100 series is Raisecom new generation managed Ethernet Switch in terms of cost-efficiency, outstanding performance, and high dependability. It implements wire-speed store and forward as well as powerful means of network management features. ISCOM2109, incorporated with 8 downlink ports and 1 Gigabit

fiber uplink port (both fixed optical connector and SFP optical module are available), is especially suitable for residential community, office building, campus, and enterprise end-users, with provisioning of Fast Ethernet access service for desktop and working groups.

### Feature

Forwarding mode	Store-and-forward
Max frame size	1632 Bytes
Port rate limiting	Based on ingress and egress of each port, ranging from 62Kbps to 256Mbps with 4095 levels
Storm control	Support
Port loopback detection	In case a port is connected to a loop circuit, the port will be shut down by Switch automatically; when the loop circuit unchains, the port will recover automatically. This function is configurable.
Multicast	IGMP Snooping V1/V2/V3 Multicast VLAN Registration (MVR)
Spanning tree	STP and RSTP
Link aggregation	Up to 4 truck groups, 8 100M ports in each trunk
Mirror	Port-to-Multiport mirroring, separate mirroring of ingress and egress traffic
MAC address table	IEEE802.1D standard address learning MAC address learning function can be enabled/disable on each port 8K MAC address, 100 static MAC address Support MAC address clear/search function Show MAC address and MAC address stats function The number of dynamic learned MAC address can be limited on per port
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
VLAN	IEEE802.1Q, double tagging (Q-in-Q), 4K active VLAN
Tranparent transmission	Support BPDU, LACP, IEEE802.1X on per port
Management Feature	
Configuration	CLI/Telnet/console
Help language	English/Chinese
Management	SNMP/RMON groups MIB1, 2, 3 and 9/Raisecom iEMS NMS Support log system and different alarm notification levels
Cluster management	Raisecom Neighbour Discover Protocol (RNDP) Raisecom Topology Discover Protocol (RTDP) Raisecom Cluster Management Protocol (RCMP) Raisecom cluster network management program
Download and upgrade	Support X-modem and FTP upgrade in BOOTROM mode Support upload, upgrade system and configuration files through FTP/TFTP
Schedule	System tasks executed periodically or at appointed time
Time management	Time and zone management, summer time, SNTP for synchronization
Error tolerance	System error report, immediately recover in case of serious error
Advanced feature	
QoS & ACL	Up to 4 output queues IEEE802.1p priority, and DSCP PRI remark



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### Specification

Performance	Switching fabric 3.6Gbps
Capacity	32MB SDRAM 4MB flash 128KB Switch buffer 8K MAC address 255 IGMP groups
Management port	1 console (RJ45)
Serial port configuration	9600bps/8bit/none parity/1 stop bit/none flow control
Port specification	10BaseT (RJ45, Cat3/Cat4/Cat5 UTP) 100BaseT (RJ45, Cat5 UTP) 1000BaseLX/BX/FX (LC/SC fiber connector, single/multi mode)
Fixed port	8 (10/100BaseT) 1 (1000BaseFX)
Indicators	Power Supply System (flashing)
Indicators for each ports	FDX LNK/ACT 10/100M
Dimension	43.6(H)*260(W)*130(D)mm
Weight	1.1kg
Power supply	AC: 90~264V, 47~63Hz DC: 36~72V
Power consumption	≤ 10W (at max load)
Working ambience	Temp: 0~45 centigrade RH: 5~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety compliance	CE marking FCC Class A

Queue schedule algorithm	Strict Priority (SP), Weighted Round Robin (WRR)
Security policy	Device management access ACL User classification and user name/password protection Support AAA & Radius authentication Support MAC address and port binding Prevent DoS attack Support port isolation and protection port
Maintenance	Support debug information print Support PING (Packet Internet Groper) Support Telnet client
Default password restoration	Support

## Ordering information

Part number	Description
ISCOM2109/AC	Manageable layer-2 Ethernet switch, 8*10/100BaseT+1*1000BaseFX, AC power supply
ISCOM2109/DC	Manageable layer-2 Ethernet switch, 8*10/100BaseT+1*1000BaseFX, DC power supply
ISCOM2109A/AC	Manageable layer-2 Ethernet switch, 8*10/100BaseT+1 SFP module for uplink, AC power supply
ISCOM2109A/DC	Manageable layer-2 Ethernet switch, 8*10/100BaseT+1 SFP module for uplink, DC power supply
USFP-GB/M	1.25G, transmission distance 2km, SFP connector
USFP-GB/S1	1.25G, transmission distance 25km, SFP connector
USFP-GB/S2	1.25G, transmission distance 60km, SFP connector
USFP-GB/S3	1.25G, transmission distance 100km, SFP connector
USFP-GB/SS13	1.25G, transmission distance 15km, single strand (1310nm) SFP module
USFP-GB/SS15	1.25G, transmission distance 15km, single strand (1550nm) SFP module
CSFP-GB/S	1.25G, transmission distance 40km, CWDM SFP optical interface module
CSFP-GB/L	1.25G, transmission distance 80km, CWDM SFP optical interface module

\* SFP indicates for ISCOM2109A

## Compliance

Standards & protocols	IEEE802.1w IEEE802.3x full duplex on 10BaseT, 100BaseTX, and 1000BaseT ports IEEE802.1D Spanning Tree Protocol IEEE802.1p CoS Prioritization IEEE802.1Q VLAN IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.3ab 1000BaseT IEEE802.3z 1000BaseX 1000BaseSX 1000BaseLX/LH 1000BaseZX RMON I and II standards SNMPv1/v2c/v3
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