

ISCOM2109F Managed L2 Ethernet Optical 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. ISCOM2109F, equipped with 8 downlink optical ports and 1

optional uplink fiber port, 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	1536 Bytes
Port rate limiting	Based on ingress and egress of each port, 64Kbps(0~2M)/1Mbps(2~100M)/8Mbps(100M~) increment
Storm control	Support storm control of broadcast, multicast and DLF according to data rate
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 2 trunk groups, 8 100M or 1 1000M port in each trunk
Mirror	Port-to-Multiport mirroring, separate mirroring of ingress and egress traffic Support blocking of non-mirroring port traffic Configure respectively egress/ingress sampling interval at 1~1023 packet Ingress/egress traffic mirroring based on source/destination MAC address
MAC address table	IEEE802.1D standard address learning MAC address learning function can be enabled/disable on each port 4K 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
Packet transparent transmission	BPDU, LACP, IEEE802.1X
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
QoS & ACL	Up to 4 output queues Support IEEE802.1p and DSCP PRI remarking



ISCOM2109F Managed L2 Access Ethernet Optical Switch

Specification

Performance	Switching fabric 3.6Gbps
Capacity	32MB SDRAM 2MB flash 256KB Switch buffer 4K 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	100BaseFX(SC fiber connector) 1000BaseLX/BX/FX (SC fiber connector, single/multi mode)
Fixed port	8 (100BaseFX)
Expansion port	1 (100BaseFX/1000BaseT/1000BaseFX)
Indicators	Power Supply System (flashing)
Indicators for 100M optical port	LNK, ACT
Dimension	440(W)*180(D)*43.6(H)mm
Weight	2.5KG
Power supply	AC: 90~264V, 47~63Hz 1A(115V), 0.7A(230V)
Power consumption	≤ 13W (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

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 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
ISCOM2109F-M/AC	Manageable intelligent aggregation layer-2 switch, 8*100M fixed Ethernet optical ports(dual-strand fiber,1310nmTx, 0~2km), one expansion slot, 115V or 230V AC
ISCOM2109F-S1/AC	Manageable intelligent aggregation layer-2 switch, 8*100M fixed Ethernet optical ports(dual-strand fiber, 1310nmTx, 0~25km), one expansion slot, 115V or 230V AC
ISCOM2109F-S2/AC	Manageable intelligent aggregation layer-2 switch, 8*100M fixed Ethernet optical ports(dual-strand fiber, 1310nmTx, 10~60km), one expansion slot, 115V or 230V AC
ISCOM2109F-M/DC	Manageable intelligent aggregation layer-2 switch, 8*100M fixed Ethernet optical ports(dual-strand fiber,1310nmTx, 0~2km), one expansion slot, -48V DC
ISCOM2109F-S1/DC	Manageable intelligent aggregation layer-2 switch, 8*100M fixed Ethernet optical ports(dual-strand fiber, 1310nmTx, 0~25km), one expansion slot, -48V DC
ISCOM2109F-S2/DC	Manageable intelligent aggregation layer-2 switch, 8*100M fixed Ethernet optical ports(dual-strand fiber, 1310nmTx, 10~60km), one expansion slot, -48V DC
SC200-GE-T	Expansion module, 1x10/100/1000M Ethernet electrical interface
SC200-GE-M	Expansion module, 1x1000M multi mode Ethernet optical interface, 500m (It must be customized)
SC200-GE-S1	Expansion module, 1x1000M Ethernet optical interface, 20km
SC200-GE-S2	Expansion module, 1x1000M Ethernet optical interface, 60km (It must be customized)
SC200-GE-S3	Expansion module, 1x1000M Ethernet optical interface, 120km (It must be customized)
SC200-FE-M	Expansion module, 1x100M multi mode Ethernet optical interface, 2km (It must be customized)
SC200-FE-S1	Expansion module, 1x100M Ethernet optical interface, 20km
SC200-FE-S2	Expansion module, 1x100M Ethernet optical interface, 60km
SC200-FE-S3	Expansion module, 1x100M Ethernet optical interface, 120km
SC200-FE-SS13	Expansion module, 1x100M Ethernet single strand (1310nm) optical interface, 25km
SC200-FE-SS15	Expansion module, 1x100M Ethernet single strand (1550nm) optical interface, 25km
SC200-FE-SS23	Expansion module, 1x100M Ethernet single strand (1310nm) optical interface,50km
SC200-FE-SS25	Expansion module, 1x100M Ethernet single strand (1550nm) optical interface, 50km

Compliance

Standards & protocols	IEEE802.1w IEEE802.3ad IEEE802.3x full duplex on 10BaseT, 100BaseTX, and 1000BaseT 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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