

## ISCOM2110-MA Managed L2 Ethernet Switch

ISCOM2100 series is a fully managed Ethernet Switch product line, provides cost-effective L2 aggregation with carrier grade reliability. Its wire-speed store and forward capabilities, and powerful network management features are ideal for deployments in MDUs, residential, office buildings, and campus environment.

ISCOM2110-MA is designed to provide eight FE downlinks and two GigE uplinks for redundant protection; supports metro access standards, basic 802.3.ah OAM discovery, and 802.1ag CFM, and SLA for Carrier Ethernet services.

### Feature

Forwarding mode	Store-and-forward
Max frame size	1632 or 1522 Bytes
Port rate limiting	Based on ingress and egress of each port, different increments at different rates: 64Kbps (0~1M)/1Mbps (1~100M)/10Mbps (100~1000M)
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, RSTP and MSTP
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/WEB based
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 featureOAM	standard and extended OAM (Master mode)
Advanced feature	



ISCOM2110-MA Managed L2 Access Ethernet Switch

### Specification

Performance	Switching fabric 5.6Gbps
Capacity	16MB SDRAM 4MB flash 128KB Switch buffer 8K MAC address 1000 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)
Expansion port	2 1000M SFP optical modules
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: 0~55 centigrade RH: 5~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing

QoS & ACL	support up to 4 output queues IEEE802.1p priority, and DSCP PRI remark based on IP ACL apply IP ACL on layer3 interface support port trust based on VLAN, SMAC and DMAC priority
(PPPoE intermediate agent(PPPOE+)	Extends the packets of PPPoE protocol, inserts user port information such as Circuit-Id /Line-ID tag
Ethernet Ring	Raisecom Ethernet Ring is a private protocol of Raisecom. It can not only prevent data loop from causing broadcast storm efficiently when the Ethernet ring is complete, but also restore communication channels among nodes on the Ethernet ring rapidly (50ms) when a link is torn down
OAM	IEEE802.3ah: - OAM discovery IEEE802.1ag: - Continuity Check Messages - Traceroute Messages - Loopback Messages SLA: - Packet Loss - Frame Delay - Ethernet Jitter
Queue schedule algorithm	Strict Priority (SP), Weighted Round Robin (WRR) and SP + 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 Secure Shell (ssh)
Maintenance	Support debug information print Support PING (Packet Internet Groper) Support Telnet client
Default password restoration	Support

## Compliance

Standards & protocols	IEEE802.1w IEEE802.1X 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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## Ordering information

Part number	Description
ISCOM2110-MA-AC	Manageable layer-2 Ethernet switch, 8*10/100BaseT+2*1000BaseFX, AC power supply
ISCOM2110-MA-DC	Manageable layer-2 Ethernet switch, 8*10/100BaseT+2*1000BaseFX, 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