

ISCOM2110A-MA Managed L2 Ethernet Switch

Datasheet

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.

ISCOM2110A-MA is designed to provide eight FE downlinks and two Gigabit Optical Ethernet uplink ports for redundant protection; supports metro access standards, basic 802.3ah OAM discovery, and 802.1ag CFM, and SLA for Carrier Ethernet services.

Feature

Basic Feature	
Switching Mode	Store-and-forward mode Buffer size:1M bit
Packet Forwarding	MTU:1,632 bytes Support Jumbo frame DLF forward control
Bandwidth Profile	Max rate limit:1,000,000Kbps Based on Ingress limit - per port Support egress shaping per port Increments: 64Kbps (64K-1M), 1Mbps (1-100M), 10Mbps (100-1000M) Rate limit based on ethertype / Queue
Storm Control	Broadcast storm control Multicast storm control Unicast DLF storm control Control mode: Global, bps
Link Aggregation	Up to 5 groups Up to 8 ports in each group Support load balance based on CRC hash value of MAC address
Mirroring	Support mirroring per port Support mirrorings for egress & ingress ports Support vlan mirroring Allow separate mirroring configurations for ingress & egress ports
MAC Address Table	Mac address auto learning 8K MAC address Add / remove MAC address View MAC address statistic Search MAC address Aging time:15-3825s MAC table threshold per port MAC table limit:1-255
Multicast	1K multicast addresses Static multicast groups IGMP Snooping (V1,V2,V3) Multicast filtering & unknown multicast discard MVR
STP	STP, RSTP & MSTP 64 instances
Flow Control	IEEE 802.3x in full duplex mode Back pressure in half duplex mode Port-based configurations
VLAN	IEEE 802.1Q VLAN 4K active VLANs PVID Overwrite VLAN priority



ISCOM2110A-MA
Managed L2 Access
Ethernet Switch

Specification

Performance	Switching fabric 5.6 Gbps
Capacity	32MB SDRAM 4MB flash 128KB Switch buffer 1K IGMP groups
Max Transmission Unit	1,632 Bytes
Management port	1 console (RJ45)
Serial port configuration	9,600bps/8bit/none parity/1 stop bit/none flow control
Port specification	10BASE-T (RJ45, Cat3/Cat4/Cat5 UTP) 100BASE-T (RJ45, Cat5 UTP) 1000BASE-LX/BX/FX (LC/SC fiber connector, single/multi mode)
Ports	8 (10/100BASE-T) 2 (1000 BASE-X SFP)
Indicators	Power supply (flashing) System (flashing) 10/100BASE-T: FDX, 100M & LNK/ACT indicators. 1000BASE-X SFP: LNK/ACT indicator
Dimension	43.6(H)*260(W)*130(D)mm
Weight	≤1.2Kg
Power supply	AC: 90~264V, 47~63Hz DC: 36~72V
Power consumption	≤6.5W (full load)
Working ambience	Temp: 0 ~ 50 centigrade RH: 10~90% non-condensing
Safety compliance	N/A (In process of applying)

QinQ	Port QinQ
Relay	BPDU DOT1X LACP Specified VLAN to receive specific multicast
Digital Diagnostic	SFP digital diagnostic
Port Loopback Detection	Individual port will be shutdown if loopback is detected
Port Backup	Support
Ethernet Ring	RAISECOM Ethernet ring: ≤ 50 ms recovery time Max 5 ethernet rings, max 124 devices in each ring
Management Feature	
System Management	CLI ARP 16 L3 interfaces, Super VLAN, max 4K VLANs Telnet Console SSH V2 RMON Group 1,2,3 & 9 SNMP Bridge MIB (RFC1493) RAISECOM NMS Web management System log Hierarchical alarms Link alarm per port Keepalive report Fault pass through Module information management
Cluster Management	RAISECOM Neighbor Discovery Protocol (RNDP) RAISECOM Topology Discovery Protocol (RTDP) RAISECOM Cluster Management Protocol (RCMP) RAISECOM Cluster Program
Auto Configuration	Support
Software Upgrade	Xmodem / FTP upgrade in BOOTROM FTP / TFTP (system & configuration files)
Scheduling	System task scheduling
Time Management	Timezone Time modification DST System time synchronization by SNTP Client NTP
DHCP	DHCP Snooping DHCP Server DHCP Client DHCP Relay DHCP Option82
OAM	802.3ah OAM (Discovery, Link Performance, Remote loopback, Fault detection and Performance Stats per OAM standards) OAM ACTIVE / PASSIVE Mode Extended OAM (Configure on remote switches)
CFM	802.1ag, Y.1731 protocol, Support 256 MEP,256 MA
SLA	Layer-2/Layer-3 SLA (frame delay, jitter & loss)
Error Tolerance Redundancy	& System error report Fast recovery during serious error
Filter	Switch access IP packet filter

Storage
ambience

Temp: -25~70 centigrade

Compliance

MIB Management	802-1x-2004-MIB DISMAN-PING-MIB DOT3-OAM-MIB IEEE8021-CFM-MIB81 RFC1213 RFC1493 RFC1757 RFC1907 RFC2233 RFC2571 RFC2572 RFC2573N RFC2573P RFC2573T RFC2574 RFC2575 RFC2665 RFC2674P RFC4363Q TRACEROUTE RAISECOM-ACL-MIB RAISECOM-COMMON-MANAGEMENT-MIB RAISECOMDOT1XMIB RAISECOM-EXTEND-OAM-UPGRADE-MIB RAISECOM-EXTOAM-MIB RAISECOM-KEEPALIVE-MIB RAISECOM-OAM-MIB RAISECOM-OPTICAL-MONITOR-MIB RAISECOM-PPPOEAGENT-MIB RAISECOM-QOS-MIB RAISECOM-RCMP-MIB RAISECOM-RELAY-MIB RAISECOM-REMOTE-MANAGEMENT-LOCAL-MIB RAISECOM-REMOTE-MANAGEMENT-REMOTE-MIB RAISECOM-RNDP-MIB RAISECOM-RTDP-MIB RAISECOM-SCHEDULE-MIB
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QoS	CoS to queue mapping DSCP to queue mapping Port priority override Port TRUST mode TRUST port priority TRUST CoS priority TRUST DSCP priority Global queue scheduling 4 queues per port SP WRR WRR weight range:1-125 SP+WRR
Safety Feature	User classification & password protection RADIUS TACAS+ Binding of MAC address & port Port protection PPPoE Agent DOT1X
Routing Protocol	Static routing & default gateway
Maintenance	Debug information output PING (Packet Internet Groper) Telnet Client Trace route Port statistic Port dynamic statistic
Password Recovery	Support
MEF 9&14	Support

Ordering Information

Part number	Description
ISCOM2110A-MA-AC	Manageable layer-2 Ethernet switch, 8*10/100BASE-T+2*1000BASE-X SFP, AC 220V power supply
ISCOM2110A-MA-DC	Manageable layer-2 Ethernet switch, 8*10/100BASE-T+2*1000BASE-X SFP, DC -48v power supply
ISCOM2110A-MA-DC(+12V)	Manageable layer-2 Ethernet switch, 8*10/100(BASE-T)+2*1000BASE-X SFP, DC +12V power supply
ISCOM2110A-MA-WP	Manageable layer-2 Ethernet switch, 8*10/100(BASE-T)+2*1000BASE-X SFP, AC 220V or DC -48V power supply

Standards

RAISECOM-SYSLOG-SERVICE-MIB
SWITCH-SYSTEM-MIB
RAISECOM-UPGRADE-MIB
RAISECOM-USER-MIB
RC802-1X-MIB
RCCFM
RCDOT1AG
RCQINQ
RCSLA
RMONMIB
SWITCH-AUTOCONFIG-MIB
SWITCH-DHCPCLIENT-MIB
SWITCH-DHCPOPTION-MIB
SWITCH-DHCPSPNOOPING-MIB
SWITCH-ERING-MIB
SWITCH-IFEXTEND-MIB
SWITCH-L3FILTER-MIB
SWITCH-LINKSTATETRACK-MIB
SWITCH-MACCONFIG-MIB
SWITCH-MSTP-MIB
SWITCH-MVR-MIB
SWITCH-NTP-MIB
SWITCH-PORTBACKUP-MIB
SWITCH-PORTMIRROR-MIB
SWITCH-PORTSTATISTIC-MIB
SWITCH-RATELIMIT-MIB
SWITCH-RSTP-MIB
SWITCH-SNMP-MIB
SWITCH-SYSTEM-MIB
SWITCH-TRUNK-MIB
SWITCH-VLANCFG-MIB
IEEE 802.1Q VLAN
IEEE 802.3ad Link Aggregation
IEEE 802.1ad QinQ
IEEE 802.1D Spanning Tree Protocol
IEEE 802.1w RSTP
IEEE 802.1s MSTP
IEEE 802.1x Security
IEEE 802.1p CoS Prioritization
IEEE 802.3x Flow Control
IEEE 802.3ah OAM
IEEE 802.1ag Connectivity Fault Management
ITU Y.1731 Services OAM
Static Routing
IGMP v1, v2, v3 Multicast
RMON I and II standards
SNMPv1,SNMPv2c and SNMPv3
MEF9 MEF14