

## ISCOM2110A-MA-PWR4 Managed L2 Ethernet

Datasheet

### Switch

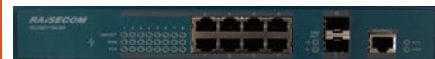
ISCOM2100 series is a fully managed Ethernet Switch product line, provides cost-effective L2 aggregation with carrier grade reliability. Its wire-speed store and forward capabilities, and powerful network management features are ideal for deployments in MDUs, residential, office buildings, and campus environment. ISCOM2110A-MA-PWR4 is designed to provide

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

With PoE function, ISCOM2110A-MA-PWR can be PSE for devices like wireless AP and video camera.

### Feature

| Basic Feature     |   |
|-------------------|---|
| Forwarding Mode   | Store-and-forward mode<br>Buffer size:128KB   |
| Packet Forwarding | MTU:1,632byte<br>DLF forward control  |
| Bandwidth Profile | Max rate limit:1,000,000Kbps<br>Based on Ingress and/or Egress - per port<br>Increments: 64Kbps (64K-1M), 1Mbps (1-100M), 10Mbps (100-1000M)<br>Rate limit based on ethertype / Queue       |
| Storm Control     | Broadcast storm control<br>Multicast storm control<br>Unicast DLF storm control<br>Control mode: Global, bps  |
| Link Aggregation  | Up to 5 groups<br>Up to 8 ports in each group<br>Support load balance based on CRC hash value of MAC address  |
| Mirroring         | N:1 port mirroring<br>Separate mirrorings for egress & ingress ports<br>Mirroring per VLAN<br>Allow separate mirroring configurations for ingress & egress ports                            |
| MAC Address Table | IEEE 802.1Q<br>8K MAC address<br>Add/remove MAC address<br>View MAC address statistic<br>Search MAC address<br>Aging time:15-3825s<br>MAC table threshold per port<br>MAC table limit:1-255 |
| Multicast         | 1K multicast addresses<br>Static multicast group<br>IGMP Snooping (V1,V2,V3)<br>Multicast filtering & unknown multicast discard<br>MVR  |
| STP               | STP, RSTP & MSTP<br>64 instances  |
| Flow Control      | IEEE 802.3x in full duplex mode<br>Back pressure in half duplex mode<br>Port-based configurations   |
| VLAN              | IEEE 802.1Q VLAN<br>4K active VLANs<br>Port PVID Overwrite  |
| QinQ              | Port QinQ   |
| L2TP              | BPDU  |



ISCOM2110A-MA-PWR4  
Managed L2 Access  
Ethernet Switch

### Specification

|                           |  |
|---------------------------|--|
| Performance               | Switching fabric 5.6 Gbps  |
| Capacity                  | 32MB SDRAM<br>4MB flash<br>128KB Switch buffer<br>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)<br>100BASE-T (RJ45, Cat5 UTP)<br>1000BASE-LX/BX/FX (LC/SC fiber connector, single/multi mode)  |
| Ports                     | 8 (10/100BASE-T, Port 1~4: PoE PSE port)<br>2 (1000 BASE-X SFP)  |
| Indicators                | Power supply (flashing)<br>System (flashing)<br>10/100BASE-T: FDX, 100M & LNK/ACT indicators.<br>1000BASE-X SFP: LNK/ACT indicator |
| Dimension                 | 43.6(H)*300(W)*220(D)mm  |
| Weight                    | ≤2.1Kg   |
| Power supply              | AC: 90~264V, 47~63Hz<br>DC: 36~72V   |
| Power consumption         | ≤90W   |
| Working ambience          | Temp: 0 ~ 50 centigrade<br>RH: 10~90% non-condensing   |
| Storage ambience          | Temp: -25~70 centigrade  |

|                            |   |
|----------------------------|---|
|                            | DOT1X<br>LACP<br>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<br>Max 8 ethernet rings, max 124 devices in each ring   |
| <b>Management Feature</b>  |   |
| System Management          | CLI<br>ARP<br>16 L3 interfaces, Super VLAN, max 4K VLANs<br>Telnet<br>Console<br>SSHV2<br>RMON Group 1,2,3 & 9<br>SNMP<br>Bridge MIB (RFC1493)<br>RAISECOM NMS<br>Web management<br>System log<br>Hierarchical alarms<br>Link alarm per port<br>Keepalive report<br>Fault pass through<br>Module information management |
| Cluster Management         | RAISECOM Neighbor Discovery Protocol (RNDP)<br>RAISECOM Topology Discovery Protocol (RTDP)<br>RAISECOM Cluster Management Protocol (RCMP)<br>RAISECOM Cluster Program   |
| Auto Configuration         | Support   |
| Software Upgrade           | Xmodem/FTP upgrade in BOOTROM<br>FTP/TFTP (system & configuration files)  |
| Scheduling                 | System task scheduling  |
| Time Management            | Timezone<br>Time modification<br>DST<br>System time synchronization by SNTP Client<br>NTP   |
| DHCP                       | DHCP Snooping<br>DHCP Client<br>DHCP Option82   |
| OAM                        | 802.3ah OAM (Discovery, Link Performance, Remote loopback, Fault detection and Performance Stats per OAM standards)<br>OAM Master<br>Dying Gasp<br>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<br>Fast recovery during serious error   |
| Filter                     | Switch access IP packet filter  |
| PoE                        | 4 PoE ports (port 1-4)<br>port max power config (max value 15.4W, least value 4W)<br>critical, high, low priority; auto/manual electricity management<br>Overheating protection<br>IEEE802.3af, RFC3621   |

Safety compliance N/A (In process of applying )

## Compliance

|                |   |
|----------------|---|
| MIB Management | 802-1x-2004-MIB<br>DISMAN-PING-MIB<br>DOT3-OAM-MIB<br>IEEE8021-CFM-MIB81<br>RFC1213<br>RFC1493<br>RFC1757<br>RFC1907<br>RFC2233<br>RFC2571<br>RFC2572<br>RFC2573N<br>RFC2573P<br>RFC2573T<br>RFC2574<br>RFC2575<br>RFC2665<br>RFC2674P<br>RFC4363Q<br>RFC3621<br>TRACEROUTE<br>RAISECOM-ACL-MIB<br>RAISECOM-COMMON-MANAGEMENT-MIB<br>RAISECOMDOT1XMIB<br>RAISECOM-EXTEND-OAM-UPGRADE-MIB<br>RAISECOM-EXTOAM-MIB<br>RAISECOM-KEEPALIVE-MIB<br>RAISECOM-OAM-MIB<br>RAISECOM-OPTICAL-MONITOR-MIB<br>RAISECOM-PPPOEAGENT-MIB<br>RAISECOM-QOS-MIB<br>RAISECOM-RCMP-MIB<br>RAISECOM-RELAY-MIB<br>RAISECOM-REMOTE-MANAGEMENT-LOCAL-MIB<br>RAISECOM-REMOTE-MANAGEMENT-REMOTE-MIB<br>RAISECOM-RNDP-MIB<br>RAISECOM-RTDP-MIB<br>RAISECOM-SCHEDULE-MIB |
|----------------|---|

|                   |   |
|-------------------|---|
| QoS               | CoS to queue mapping<br>DSCP to queue mapping<br>Port priority override<br>Port TRUST mode<br>TRUST port priority<br>TRUST CoS priority<br>TRUST DSCP priority<br>Global queue scheduling<br>4 queues per port<br>SP<br>WRR<br>WRR weight range:1-125<br>SP+WRR |
| Safety Feature    | User classification & password protection<br>RADIUS<br>TACAS+<br>Binding of MAC address & port<br>Port protection<br>PPPoE Agent<br>DOT1X   |
| Routing Protocol  | Static routing & default gateway  |
| Maintenance       | Debug information output<br>PING (Packet Internet Groper)<br>Telnet Client<br>Trace route<br>Port statistic<br>Port dynamic statistic   |
| Password Recovery | Support   |
| MEF 9&14          | Support   |

|           |  |
|-----------|--|
|           | RAISECOM-SYSLOG-SERVICE-MIB<br>SWITCH-SYSTEM-MIB<br>RAISECOM-UPGRADE-MIB<br>RAISECOM-USER-MIB<br>RC802-1X-MIB<br>RCCFM<br>RCDOT1AG<br>RCQINQ<br>RCSLA<br>RMONMIB<br>SWITCH-AUTOCONFIG-MIB<br>SWITCH-DHCPCLIENT-MIB<br>SWITCH-DHCPOPTION-MIB<br>SWITCH-DHCPSPNOOPING-MIB<br>SWITCH-ERING-MIB<br>SWITCH-IFEXTEND-MIB<br>SWITCH-L3FILTER-MIB<br>SWITCH-LINKSTATETRACK-MIB<br>SWITCH-MACCONFIG-MIB<br>SWITCH-MSTP-MIB<br>SWITCH-MVR-MIB<br>SWITCH-NTP-MIB<br>SWITCH-PORTBACKUP-MIB<br>SWITCH-PORTMIRROR-MIB<br>SWITCH-PORTSTATISTIC-MIB<br>SWITCH-RATELIMIT-MIB<br>SWITCH-RSTP-MIB<br>SWITCH-SNMP-MIB<br>SWITCH-SYSTEM-MIB<br>SWITCH-TRUNK-MIB<br>SWITCH-VLANCFG-MIB |
| Standards | IEEE 802.1Q VLAN<br>IEEE 802.3ad Link Aggregation<br>IEEE 802.1ad QinQ<br>IEEE 802.1D Spanning Tree Protocol<br>IEEE 802.1w RSTP<br>IEEE 802.1s MSTP<br>IEEE 802.1x Security<br>IEEE 802.1p CoS Prioritization<br>IEEE 802.3x Flow Control<br>IEEE 802.3ah OAM<br>IEEE 802.1ag Connectivity Fault Management<br>ITU Y.1731 Services OAM<br>Static Routing<br>IGMP v1, v2, v3 Multicast<br>RMON I and II standards<br>SNMPv1,SNMPv2c and SNMPv3<br>MEF9 MEF14<br>IEEE802.3af POE  |

## Ordering Information

| Part number           | Description   |
|-----------------------|---|
| ISCOM2110A-MA-PWR4-AC | Manageable layer-2 Ethernet switch, 8*10/100BASE-T+2*1000BASE-X SFP, AC power supply, 4*PoE ports (port1-port4) |