

ISCOM21xx-PWR series

ISCOM2110EA-MA-PWR
ISCOM2126EA-MA-PWR



Managed Layer-2 PoE Switches

► Overview



Top: ISCOM2110EA-MA-PWR
Bottom: ISCOM2126EA-MA-PWR

ISCOM21xx-PWR is PoE (Power over Ethernet) device series complied with IEEE802.3af/at and RCF3621. As a Power Source Equipment, ISCOM21xx-PWR is deployed at the Ethernet access layer in small/medium enterprise, residential area, campus, etc. With 8 PSE ports on ISCOM2110EA-MA-PWR and 24 PSE ports on ISCOM2126EA-MA-PWR, they can offer power supply for PD devices like wireless Access Point, IP phone and surveillance camera.

As a L2 switch, ISCOM21xx-PWR also provides cost-effective L2 aggregation with carrier grade reliability, supports metro access standards, basic 802.3ah OAM discovery, 802.3ag CFM, and SLA for Carrier Ethernet services.

► Highlights

Power over Ethernet	Complied with IEEE802.3af/at and RFC3621, PSE ports on PoE switches can offer power up to 30W per port for remote devices, while advanced PoE features like auto/manual electricity management, overheating protection, priority config (critical/high/low) and port max power config are also supported.
Sophisticated Network Security Assurance	Networks are secured with port-isolation within individual VLAN, selective Q-in-Q function, MAC table threshold per port, broadcast/multicast/DLF storm control, unique port loopback detection, STP, RSTP & MSTP, and DHCP Client/Snooping/Option82.
Carrier Ethernet QoS	IEEE802.1p based QoS is supported in terms of 4 queues per port, SP/WRR/SP+WRR, bandwidth control, IGMP snooping, and multicast VLAN registration (MVR) to save bandwidth and optimize corresponding services.
Premium OAM Options	Comply with IEEE802.1ag CFM, IEEE802.3ah OAM, and ITU-T Y.1731 performance monitoring; support TFTP, FTP, TELNET, SSH management options; offer DHCP client function; compatible with Raisecom "OneTouch" network management system.
Advanced Technology	Advanced Layer-2 switching fabric and various port types ensure excellent wire-speed for forwarding capability.

ISCOM21xx-PWR Series

► Features

General	
Switching Mode	Store and forward mode; Buffer size: ISCOM2110EA-MA-PWR: 128KB; ISCOM2126EA-MA-PWR: 128KB
Packet Forwarding	MTU: ISCOM2110EA-MA-PWR: 1,632 byte; ISCOM2126EA-MA-PWR: 2,048 byte; DLF forward control
Bandwidth Profile	Rate limit:1,000,000Kbps; Ingress and/or Egress per port; Rate limit based on packet type/queue; Increments: 64Kbps (<1.8M), 1Mbps (>1.8M),
Strom control	Trffic stop at threshold,DLF strom control; Control mode: global, pps
VLAN	IEEE 802.1Q VLAN; 4K active VLANs; Port isolation under one VLAN
Q-in-Q	Port Q-in-Q; ISCOM2128-I only: Flexible QinQ; 1024 flexible QinQ configuration entries; Egress VLAN swapping;
Link Aggregation	Up to 6 groups and 8 ports per group; Load balance based on CRC harsh value of MAC address or IP address
Mirroring	N:1 port mirroring; Mirroring per VLAN; Separate mirroing configurations for ingress & egress ports;
MAC Address Table	IEEE802.1Q 16K MAC address; Add/remove MAC address; View MAC address statistic; Search MAC address; Aging time:10-1,000,000s; MAC table threshold per port; MAC table limit:1-255;
STP	STP, RSTP & MSTP; 64 instances
Flow Control	IEEE 802.3x in full duplex mode; Back pressure in half duplex mode; Port-based configurations
Multicast	1K multicast addresses; Static multicast group; IGMP Snooping V1/V2/V3; Multicast filtering & unknow multicast discard; MVR
Port Loopback Detection	Auto shutdown individual ports upon fault signals
Port Backup	Support
Transparent Relay	BPDU; DOT1X; LACP
Digital Diagnostic	SFP digital diagnostic function
Advanced	
OAM	IEEE802.3ah OAM including discovery, link performance, remote loopback, fault detection & performance stats per OAM Master; Extended OAM (configure on remote switches)
CFM	IEEE802.1ag, ITU-T Y.1731 protocol, support 256 MEP, 256 MA; Connectivity check; loopback; linktrace

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Highlights Applications Features Specifications Compliances Order Info

► Features

Advanced	(cont'd)	Time Management	Timezone; Time modification; DST; System time synchronization by SNTP Client
SLA	Layer-2/Layer-3 SLA (frame delay, jitter & packet loss)	LLDP	Discovery remote base on link layer; Get remote basic information
QoS	CoS/DSCP to queue mapping; Port priority override; Port TRUST mode; TRUST CoS/DSCP priority; Global queue scheduling; 8 queues per port; SP/WRR/SP+WRR; WRR weight range:1-255;	DHCP	DHCP Client/Snooping/Opt82/Relay
Filter	Switch access IP packet filter	Error Tolerance & Redundancy	System error report; Fast recovery during serious error
Safety Features	Client classification; RADIUS; TACAS+; Binding of MAC address & port; Port protection; DOT1X; IP source guard; Dynamic ARP inspection	Auto Configuration	Support
Maintenance	Debug information output; PING (Packet Internet Groper); Telnet Client; Port statistic; Port dynamic statistic	Password recovery	Support
Scheduling	System task scheduling	MEF 9 & 14	Support
Software Upgrade	Xmodem/FTP upgrade in BOOTROM FTP/TFTP	System Management	CLI/ARP/Telnet/Console/SNMP/Web; management; 16 Layer 3 interfaces, Super VLAN, max 4K VLANs; SSHV2; RMON1,2,3 & 9; Bridge MIB (RFC1493); RAISECOM NMS; System log; Hierarchical alarms; Link alarm per port; Keepalive report; Fault pass through; Module information management

ISCOM21xx-PWR Series

► Specifications

Product	ISCOM2110EA-MA-PWR	ISCOM2126EA-MA-PWR
Performance	Switching fabric: 5.6Gbps	Switching fabric: 8.8Gbps
Capacity	64MB SDRAM; 8MB flash; 1.5MB switch buffer; 1K IGMP groups	64MB SDRAM; 8MB flash; 1.5MB switch buffer; 1K IGMP groups
MTU	9,712Bytes	9,712Bytes
Indicators	Power Supply (flashing); System (flashing); 10/100BASE-T: LINK/ACT & Speed indicators 100/1000BASE-X SFP: LNK/ACT indicators	
Port Specs	8 x10/100BASE-T supporting PoE; 2 x 100/1000BASE-X SFP;	24 x10/100BASE-T; 2 x 100/1000BASE-X SFP;
	Management port: 1 console (RJ45); Serial port config: 9600bps/8bit/none parity/1 stop bit/none flow control	
Power Specs	AC 220: 100V~240V, 50~60Hz, 1A/230V	
	≤150W (full load), up to 124W PoE power supply	≤440W (full load), up to 370W PoE power supply
User Conditions	Storage temp: -40~70°C (-40~185°F) Operating temp: 0~50°C (-40~185°F) Humidity: 0~90% non-condensing	
Dimensions	300(L) x 220(W) x 43.6(H) mm3	440(L) x 420(W) x 43.6(H) mm3
Weight	≤2.5kg	≤5.6kg

ISCOM21xx-PWR Series

Compliances

Safety	N/A (application in process)		
MIB Management	<p>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- COMMONMANAGEMENT-MIB RAISECOMDOT1XMIB RAISECOM-EXTEND- OAMUPGRADE-MIB RAISECOM-EXTOAM-MIB RAISECOM-KEEPALIVE-MIB RAISECOM-OAM-MIB RAISECOM-OPTICALMONITOR- MIB RAISECOM-PPPOEAGENTMIB RAISECOM-QOS-MIB RAISECOM-RCMP-MIB RAISECOM-RELAY-MIB RAISECOM- REMOTEMANAGEMENT- LOCAL-MIB RAISECOM- REMOTEMANAGEMENT- REMOTE-MIB RAISECOM-RNDP-MIB RAISECOM-RTDP-MIB RAISECOM-SCHEDULE-MIB RAISECOM-SYSLOGSERVICE-MIB SWITCH-SYSTEM-MIB</p>	MIB Management (cont'd)	<p>RCCFM RCDOT1AG RCQINQ RCSLA RMONMIB SWITCH-AUTOCONFIG-MIB SWITCH-DHCPCLIENT-MIB SWITCH-DHCPOPTION-MIB SWITCH-DHCPSNOOPINGMIB SWITCH-ERING-MIB SWITCH-IFEXTEND-MIB SWITCH-L3FILTER-MIB SWITCHLINKSTATETRACK-MIB SWITCH-MACCONFIG-MIB SWITCH-MSTP-MIB SWITCH-MVR-MIB SWITCH-NTP-MIB SWITCH-PORTBACKUP-MIB SWITCH-PORTMIRROR-MIB SWITCH-PORTSTATISTICMIB SWITCH-RATELIMIT-MIB SWITCH-RSTP-MIB SWITCH-SNMP-MIB SWITCH-SYSTEM-MIB SWITCH-TRUNK-MIB SWITCH-VLANCFG-MIB</p>
		Standards	<p>IEEE 802.1Q VLAN IEEE 802.3ad Link Aggregation IEEE 802.1ad QinQ IEEE 802.1D Spanning Tree Protocol IEEE 802.1s MSTP IEEE 802.3af/at Power over Ethernet IEEE 802.1x Security IEEE 802.1p QoS Prioritization IEEE 802.3x Flow Control IEEE 802.3ah OAM IEEE 802.1ag Connectivity Fault Management ITU Y.1731 Services OAM Static Routing IGMPv1/v2/v3 Multicast RMON I and II Standards SNMPv1/v2/v3 MEF9 & 14</p>

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ISCOM2110EA-MA-PWR-AC	Manageable layer-2 PoE switch, 8*10/100BASE-T +2*COMBO(100/1000BASE-X or 10/100/1000BASE-T), AC power supply, 8*PoE ports (PSE)
ISCOM2126EA-MA-PWR-AC	Manageable layer-2 PoE switch, 24*10/100BASE-T +2*COMBO(100/1000BASE-X or 10/100/1000BASE-T), AC power supply, 24*PoE ports (PSE)