

ISCOM2126EA-MA Managed L2 Switch

ISCOM2126EA-MA acts as an enhanced aggregation Ethernet Switch, which can be network managed both locally and remotely. It is designed for Raisecom's Carrier Ethernet portfolio. ISCOM2126EA-MA provides 24 10/100BaseT auto-sensing service ports and 2 SFP slots. It adopts industrial-advanced microchips and switching structure to ensure

carrier-class stability and dependability. ISCOM2126EA-MA contributes to extremely cost-effective solutions that are suitable for campus, enterprise, and residential community networks aggregation scenarios, helping carriers not only reduce Capital Expenditure but also Total Cost of Ownership.

Feature

Basic Feature

Forwarding Mode	Store-and-forward mode Buffer size: 3M bits
Packet Forwarding	MTU:2,048 byte Jumbo Frame DLF forward control
Bandwidth Profile	Max rate limit:1048576Kbps Max burst size:1,016KB Rate limit per VLAN Ingress rate limit per port Egress shaping per port From 64Kbps to 100Mbps per FE port or up to 1Gbps per GE port with 64Kbps granularity
Storm Control	Broadcast storm control Multicast storm control Unicast DLF storm control Default burst size: 8KB Control mode: Global, bps, burst
Link Aggregation	Up to 6 groups Up to 8 ports in each trunk group Load balance based on MAC & IP
Mirroring	Mirroring per port Separate mirrorings for egress or ingress ports Block non-mirroring flow Mirroring sampling interval Mirroring filter Allow separate mirroring configurations for ingress & egress ports
MAC Address Table	IEEE 802.1Q 8K 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
Multicast	1K multicast addresses Static multicast groups IGMP Snooping (V1,V2,V3) Multicast filtering & unknown multicast discard MVR
STP	STP, RSTP & MSTP 32 instances



**ISCOM2126EA-MA
Enhanced L2 Metro Ethernet
Switch**

Specification

Performance	Switching fabric 8.8Gbps
Capacity	32MB SDRAM 4MB flash 384KB Switch buffer 1K IGMP groups
MTU	2,048 byte
Managing port	1 console (RJ45)
Serial port configuration	9600bps/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 fiber connector, single/multi mode)
Ports	24 *10/100BASE-T 2 *1000 BASE-X SFP
Indicators	Power Supply (flashing) System (flashing) 10/100BASE-T: LNK/ACT, 10/100M indicators. 1000BASE-X SFP: LNK, ACT indicators
Dimension	442(W)*266(D)*43.8(H)mm
Weight	≤3.3Kg
Power supply	AC: 90~264V, 47~63Hz DC: 36~72V
Power consumption	13.2W (full load)
Working ambience	Temp: 0~50 centigrade RH: 10~90% non-condensing

Flow Control	IEEE 802.3x in full duplex mode Back pressure in half duplex mode Separate configurations for ingress & egress
VLAN	IEEE 802.1Q VLAN 4K active VLANs Port VLAN
QinQ	Port QinQ Flexible QinQ 3,328 flexible QinQ configuration entries Egress VLAN swapping N:1 VLAN swapping (both egress and ingress) 416 N:1 VLAN swapping per device 16 N:1 VLAN swapping per port
Relay	BPDU DOT1X LACP
Digital Diagnostic	SFP digital diagnostic
Cable Diagnostic	Support
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 8 ethernet rings, max 124 devices in each ring.
Advanced Feature	
ACL	MAC-based ACL IP-based ACL ACL map (L2~L4 byte)
Filter	ACL hardware filter Hardware supports max 1,024 data flow Switch access IP packet filter
QoS	CoS to queue mapping DSCP to queue mapping Port TRUST mode TRUST port priority TRUST CoS priority TRUST DSCP priority Queue scheduling 4 queues per port SP WRR WRR weight range:1-55 SP+WRR Flow statistic Flow-based mirroring Flow-based rate limit Flow-based redirection Flow-based VLAN swapping Flow-based rewriting of 802.1p CoS, DSCP, IP precedence
Safety Feature	User classification & password protection RADIUS / TACAS+ Binding of MAC address & port Port protection / PPPoE Agent / DOT1X Support ip source guard/dynamic ARP inspection
Routing Protocol	Static routing & default gateway
Maintenance	Debug information output PING (Packet Internet Groper) Telnet Client Trace route Port statistic, Port dynamic statistic

Storage ambience	Temp: -25~65 centigrade
Safety compliance	N/A (in process of applying)

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-CABLE- DIAGNOSE-MIB RAISECOM-COMMON- MANAGEMENT-MIB RAISECOMDOT1XMIB RAISECOM-EXTEND-OAM- UPGRADE-MIB RAISECOM-EXTOAM-MIB RAISECOM- IPSOURCEGUARS-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 SWITCH-RATELIMIT-MIB SWITCH-RSTP-MIB SWITCH-SNMP-MIB SWITCH-SYSTEM-MIB SWITCH-TRUNK-MIB SWITCH-VLANCFG-MIB
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Password Recovery	Support
Management Feature	
System Management	CLI/ARP 16 L3 interfaces, Super VLAN, max 4K VLANs Telnet / Console SSH version 2 server(multi-clients) 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 Sub-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
Scheduling	Support system scheduling
Time Management	Timezone / Time modification DST / NTP System time synchronization by SNTP Client
DHCP	DHCP Snooping / DHCP Client Option82,Relay
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) OAM MIB Variable Get Function/OAM Event Function
CFM	802.1ag, Y.1731 protocol, support 256 MEP, 256 MA Connectivity Check Loopback / Linktrace
SLA	Layer-2 / Layer-3 SLA
Error Tolerance & Redundancy	System error report Fast recovery during serious error

MIB Management	RAISECOM-RNDP-MIB RAISECOM-RTDP-MIB RAISECOM-SCHEDULE-MIB 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-DAI-MIB SWITCH-DHCPCLIENT-MIB SWITCH-DHCHOPTION-MIB SWITCH-DHCPSPNOOPING-MIB SWITCH-ERING-MIB SWITCH-FILTER-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
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Standards	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 SNMP v1/v2c/v3 MEF9 MEF14
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Ordering Information

Part number	Description
ISCOM2126EA-MA/AC	Managed L2 Ethernet Switch, 24 *10/100BASE-T+2 *1000 BASE-X SFP, AC power supply
ISCOM2126EA-MA/DC	Managed L2 Ethernet Switch, 24 *10/100BASE-T+2 *1000 BASE-X SFP, DC power supply