

ISCOM2126EA-MA L2 Aggregation 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

Forwarding mode	Store-and-forward
Max frame size	1522 KB Jumbo frame: 2048KB
Port rate limiting	Based on ingress and egress of each port, different increments at different rates
Storm control	Support storm control of broadcast, multicast and DLF according to data rate
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 will conflict with STP and is configurable.
Multicast	IGMP Snooping V1/V2/V3 Multicast VLAN Registration (MVR)
Spanning tree	STP and RSTP
Link aggregation	Up to 6 trunk groups, 8*100M ports or 2*1000M ports in each trunk Support load-sharing based on source MAC address, destination MAC address, and source + destination MAC address policies
Mirror	Port-to-Multiport mirroring, separate mirroring of ingress and egress traffic and different intervals can be configured respectively Support mirror based on source MAC address or destination MAC address Support blocking of non-mirroring port 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 configured on per port
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
VLAN	IEEE802.1Q, 4K active VLAN Flexible QinQ
L2 packets transparent transmission	BPDU/GARP/GMRP/GVRP/IEEE802.1x/LACP (This function will conflict with STP)
OAM	Support OAM function (802.3ah) and extended OAM OAM Discovery, Dying Gasp, OAM remote loopback, Variable request
(PPPoE intermediate agent(PPPOE+))	Extends the packets of PPPoE protocol, inserts user port information such as Circuit-Id /Line-ID tag
Management Feature	
Configuration	CLI/Telnet/console
Management	SNMP/RMON groups MIB1,2,3 and 9/Raisecom iEMS NMS Support log system and different alarm notification levels

ISCOM2126EA-MA Enhanced L2 Metro Ethernet Access Switch

Specification

Performance	Switching fabric 8.8Gbps
Capacity	64MB SDRAM 4MB flash 384KB 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) 1000BaseT (RJ45, Cat5 UTP) 100BaseLX/BX/FX (LC fiber connector, single/multi mode)
Fixed port	24 (10/100BaseT)
Expansion port	2 (1000 SFP)
Indicators	Power Supply System (flashing) FDX for each port LINK/ACTIVE 10/100M
Dimension	442(W)*266(D)*43.8(H)mm
Weight	3.5 KG
Power supply	AC: 90~264V, 47~63Hz, 1.05A(120V)/0.55A(230V) DC: 36~75V
Power consumption	≤ 13.8W (at max load)
Working ambience	Temp: 0~45 centigrade RH: 20~90% non-condensing

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 feature	Strict Priority (SP), Weighted Round Robin (WRR), SP+WRR
Queue schedule algorithm	
QoS & ACL	Up to 4 output queues Support IEEE802.1p and TOS/DSCP PRI remark Support L2 - L4 packet filtering based on source MAC address, destination MAC address, source IP address, destination IP address, port, protocol, VLAN, VLAN range, MAC address range and illogical frames.
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, protection port Secure Shell (ssh)
Maintenance	Support debug information print Support PING (Packet Internet Groper) Support Telnet client
Default password restoration	Support

Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety compliance	UL

Compliance

Standards & protocols	IEEE802.1w IEEE802.1x IEEE802.3ad 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
ISCOM2126EA-MA/AC	Manageable intelligent layer-2 switch with AC power supply
ISCOM2126EA-MA/DC	Manageable intelligent layer-2 switch with 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