

## ISCOM2924GF Gigabit Optical Aggregation Switch

ISCOM2924GF is an intelligent Gigabit Optical Ethernet Switch which provides 20 Gigabit optical SFP ports and 4 combo ports for Metro Ethernet access and aggregation. Its high-efficient L2 switching fabric enables excellent wire-speed forwarding capability provision. ISCOM2924GF is integrated with advanced Access Control List and bandwidth management policies for provisioning of flexible network

construction, customized QoS, complete network management and high dependability that perfectly satisfy carrier's requirement. ISCOM2924GF is especially highlighted for its Q-in-Q function for enhanced user identification. Its highest available switching performance with Gigabit Optical Ethernet ports is particularly suitable for Carrier Class Ethernet.

### Feature

Forwarding mode	Store-and-forward
Max frame size	1536 Bytes, support Jumbo frame
Port rate limiting	Based on ingress and egress of each port, 64kbps increment
Storm control	Support storm control of broadcast, multicast and DLF according to PPS
Port loopback detection	In case a port is connected to a loop circuit, the port will be shut down automatically; the loop detection period 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 1000M ports in each trunk 6 types of load-sharing based on MAC and IP address
Mirror	Port-to-Multiport mirroring, separately mirroring of ingress and egress traffic
MAC address table	IEEE802.1D standard address learning MAC address learning function can be enabled/disable on each port 16K MAC address, 100 static MAC address Support MAC address clear/search function Show MAC address and MAC address stats. function
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
VLAN	IEEE802.1Q VLAN; 4K active VLAN; VLAN Swapping, Stacking (Q-in-Q) and Rewriting
Tranparent transmission	BPDU, LACP, 802.1x, GMRP, GVRP, and GARP transparent transmission on assigned port
Management Feature	
Configuration	CLI/Telnet/console
Help language	English/Chinese
Management	SNMP/RMON groups MIB1, 2, 3 and 9/Raisecom iEMS NMS Support log system and different alarm notification levels
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 uploading, upgrading 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 and SNTP server
Error tolerance	System error report, immediately recover in case of serious system error
Advanced feature	



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### Specification

Performance	Switching fabric 48Gbps
Capacity	64MB SDRAM 8MB flash 512KB Bootrom 2M Switch buffer 16K MAC address 256 IGMP groups
Management port	1 console (RJ45)
Serial port configuration	9600bps/8bit/none parity/1 stop bit/none flow control
Port specification	1000Base-LX/BX/FX (LC fiber connector, single/multi mode) 10/100/1000Base-T
Fixed port	20 1000M SFP optical modules 4 combo ports for 10/100/1000Base-T and 1000Base-X
Indicators	Power Supply (PWR1, PWR2) System (flashing) LINK/ACTIVE for each port
Dimension	442(W)*360(D)*1U(H)mm
Weight	6kg
Power supply	AC: 90~264V, 47~63Hz DC: 36~75V
Power consumption	≤ 40W (at max load)
Working ambience	Temp: 0~45 centigrade RH: 20~90% non-condensing

QoS	Support CAR (Committed Access Rate) function at 64kbps increment Up to 8 output queues Support VLAN ID replacement based on flow Support 1K data flow queues at maximum Support IEEE802.1p and DSCP PRI remark Support QoS Profile management, customized QoS proposal Support re-mark function based on port ID, MAC address, VLAN, IEEE802.1p priority, diffServe and IP TOS
Queue schedule algorithm	Strict Priority (SP), Weighted Round Robin (WRR) and Hybrid mode (SP+WRR)
ACL	Support L2 - L4 packet filtering based on source/destination MAC address, source/destination IP address, port, protocol, VLAN, VLAN range, MAC address range and illogical frames filtering.
Security policy	ACL (Access Control List) function User classification and user name/password protection Support AAA & Radius authentication Support MAC address and port binding Prevent DoS (Denial of Service) attack
Maintenance	Support debug information print Support PING (Packet Internet Groper) Support Telnet client
Default password restoration	Support

## Compliance

Safety compliance	CE FCC Class A
Standards & protocols	IEEE802.1w IEEE802.3ad IEEE802.3x full duplex IEEE802.1D Spanning Tree Protocol IEEE802.1p CoS Prioritization IEEE802.1Q VLAN IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.3ab 1000BaseT IEEE802.3z 1000BaseX 1000BaseBX 1000BaseLX 1000BaseFX RMON I and II standards SNMPv1/v2c/v3