

ISCOM2824G L2 Intelligent Aggregation Switch

ISCOM2824G is an enhanced intelligent aggregation Ethernet Switch that is designed as a part of Raisecom's Carrier Ethernet portfolio. Based on Layer 2 Ethernet protocol stack, it provides complete wire-speed store-and-forward capabilities. Besides L2 switching, ISCOM2824G further incorporates ACL and bandwidth control policies to provide flexible networking, customized QoS, complete

network management, and high dependability that are called for by carrier's. Specially, the Q-in-Q function of ISCOM2824G has provided more powerful user identification function for Ethernet access. It is particularly suitable for Metro Ethernet edge access and aggregation node for communities, campus, office buildings, and enterprise end-users.

Feature

Forwarding mode	Store-and-forward
Max frame size	Jumbo frame to 8192B
Port rate limiting	Based on ingress and egress of each port or VLAN, 64K increment
Storm control	Support storm control of broadcast, multicast and DLF according to port traffic percentage or PPS
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, RSTP and MSTP
Link aggregation	Up to 6 truck groups, 8 100M ports in each trunk
Mirror	Port-to-Multiport mirroring, separate 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, double tagging (Q-in-Q), flexible Q-in-Q, 4K active VLAN, vlan rewriting
Management Feature	
Configuration	CLI/Telnet/console
Help language	English/Chinese
Management	SNMP/RMON/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 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
Error tolerance	System error report, immediately recover in case of serious error
Advanced feature	



**ISCOM2824G
Enhanced L2 Metro
Ethernet Access**

Specification

Performance	Switching fabric 48Gbps
Capacity	64MB SDRAM 8MB flash 1MB DDR Switch buffer 16K MAC address 1K IGMP groups
Management port	1 console (RJ45)
Serial port configuration	9600bps/8bit/none parity/1 stop bit/none flow control
Port specification	10/100/1000BASE-T 1000BASE-X
Fixed port	24 (10/100/1000BaseT) 4 combo (1000BASE-X)
Expansion port	N/A
Indicators	Power Supply System (flashing) FDX for each port LINK/ACTIVE for each port
Dimension	442(W)*360(D)*43.8(H)mm
Weight	5.5 KG
Power supply	AC: 90~265V, 47~63Hz, 0.3A(120V)/0.55A(230V) DC: 36~72V
Power consumption	≤ 40W (at max load)
Working ambience	Temp: 0~45 centigrade RH: 10~90% non-condensing
Storage ambience	Temp: -25~65 centigrade
Safety compliance	CE marking FCC Class A

QoS	Support CAR (Committed Access Rate) function at 64K increment Up to 8 output queues Support 1K data flow queues at maximum VLAN ID replacement based on data flow Support IEEE802.1p and DSCP PRI remark Support QoS Profile management, customized QoS proposal
Queue schedule algorithm	Strict Priority (SP), Weighted Round Robin (WRR)
ACL	Support L2 - L7 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
Security policy	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

Ordering Information

Part number	Description
ISCOM2824G/AC	Manageable intelligent aggregation layer-2 switch, 24*10/100/1000M Tx ports, four combo slots, 115V or 230V redundancy AC power supply
ISCOM2824G/DC	Manageable intelligent aggregation layer-2 switch, 24*10/100/1000M Tx ports, four combo slots, -48V redundant DC power supply
USFP-GB/M	1.25G, transmission distance 2km, multi mode SFP optical interface module
USFP-GB/S1	1.25G, transmission distance 25km, single mode SFP optical interface module
USFP-GB/S2	1.25G, transmission distance 60km, single mode SFP optical interface module
USFP-GB/SS13	1.25G, transmission distance 25km, single strand (1310nm) optical interface module
USFP-GB/SS15	1.25G, transmission distance 25km, single strand (1550nm) optical interface module
CSFP-GB/S	1.25G, transmission distance 40km, CWDM SFP optical interface module
CSFP-GB/L	1.25G, transmission distance 80km, CWDM SFP optical interface module

Compliance

Standards & protocols	IEEE 802.1w IEEE 802.3ad IEEE802.1X SSH IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports IEEE 802.1D Spanning Tree Protocol IEEE 802.1p CoS Prioritization IEEE 802.1Q VLAN IEEE 802.3 10BASE-T specification IEEE 802.3u 100BASE-TX specification IEEE 802.3ab 1000BASE-T specification IEEE 802.3z 1000BASE-X specification 100BASE-BX (SFP) 100BASE-FX (SFP) 100BASE-LX (SFP) 1000BASE-BX (SFP) 1000BASE-SX 1000BASE-LX/LH 1000BASE-ZX RMON I and II standards SNMPv1, SNMPv2c, and SNMPv3
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