

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 storeand-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

Basic F	eature

Basic Feature	
Forwarding Mode	Store and Forward mode, buffer size: 8M bit MTU:10,240 byte Default value:1,526 bytes Jumbo Frame DLF forward control
Bandwidth Profile	Max rate limit : 425,880Kbps Burst configuration Max burst size:512KB Ingress rate limit per port Egress flow shaping per port Rate limit per VLAN Ingress rate description: step 1k, range from 1K to 1023K ; step 10k, range from 1020K to 10230K ; step 100k , range from 10200K to 102300K ; step 1000K , range from 102000K to 426000K ; burst description : default value is 11K ; range from 0 to 1024K , step 1K, max burst value is 64K , range from 1025 to max rate , step 1K, max burst value is 512K Egress rate description: step 6K , range from 6K to 24570K ; step 104K , range from 24648K to 425880K ; burst description : default value is 512K , step 4K , max burst value is 512K
Storm Control	Broadcast storm control Unicast DLF control Control mode:Global,ratio Default storm control ratio: 3%
Link Aggregation	Up to 24 groups Up to 8 ports in each group Load balance based on MAC Load balance based on IP
Mirroring	Support mirroring per port Support mirroring for ingress & egress ports Allow separate mirroring configurations for ingress & egress ports
MAC Address Table	IEEE 802.1Q ; 16K MAC address ; Add/remove MAC address View MAC address statistic / Search MAC address Aging time:10-630s / Support VLAN-based MAC table enable/disable
Port based Security	Support security MAC per port Support port-based security MAC range <1-100> Support Mac Address violation mode per port Support add / remove static ; sticky security Mac Address per port Support sticky security Mac Address learning per port



Specification

Performance	Switching fabric 48Gbps
Capacity	64MB SDRAM
	8MB flash
	1MB Switch buffer
	1K IGMP groups
Management Port	1 console (RJ45)
Serial Port	9600bps/8bit/none parity/1
Configuration	stop bit/none flow control
Port	10/100/1000BASE-T
Specification	1000BASE-X
Ports	20 (10/100/1000BASE-T)
	4 combo (1000BASE-X SFP)
Indicators	Power supply(flashing)
	System (flashing)
	10/100/1000BASE-T: LNK/
	ACT indicator (green light as
	1000M, yellow as 10/100M)
	1000BASE-X SFP:
	LNK, ACT indicators
Dimension	442(W)*360(D)*43.8(H)mm
Weight	≤5.5kg
Power Supply	AC: 90~264V, 47~63Hz
,	DC: 36~72V
Power	35W (full load)
Consumption	
Working	Temp: 0~45 centigrade
Ambience	RH: 10~90% non-condensing
Storage	Temp: -25~65 centigrade
Ambience	, ,
Safety	N/A (in process of applying)
Compliance	

Building 2

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	Static multicast group		
	IGMP Snooping (V1,V2,V3) Multicast filtering & unknown multicast discard	MIB Management	802-1x-2004-MIB DISMAN-PING-MIB
	MVR		DOT3-OAM-MIB
STP	STP		IEEE8021-CFM-MIB81
	RSTP		RFC1213
	MSTP		RFC1493
	64 instances		RFC1757
	Hardware supports 255 STG		RFC1907
Flow Control	IEEE 802.3x in full duplex mode		RFC2233
	Back pressure in half duplex mode		RFC2571
\/I_ANI	Support port-based configurations		RFC2572
VLAN	IEEE 802.1Q VLAN		RFC2573N RFC2573P
	4K active VLANs Support to overwrite PVID		RFC2573T
QinQ			RFC2574
QIIIQ	Support port QinQ Support flexible QinQ		RFC2575
	Support 1024 flexible QinQ configuration entries		RFC2665
	Support double-tagging VLAN swapping		RFC2674P
	Support egress VLAN swapping		RFC4363Q
	Support N:1 VLAN swapping (both ingress & egress direction)		TRACEROUTE
	Support 128 N:1 VLAN swapping per device		RAISECOM-ACL-MIB
	Support 128 N:1 VLAN swapping per port		RAISECOM-CABLE-
VLAN Groups	128 VLAN groups		DIAGNOSE-MIB
	VLAN groups statistics		RAISECOM-COMMON-
	VLAN groups CoS value override		MANAGEMENT-MIB
	Support CoS-to-queue mapping based on VLAN group		RAISECOMDOT1XMIB
	Support VLAN group CoS value remarking		RAISECOM-EXTEND-OAM-
	VLAN groups rate limit		UPGRADE-MIB RAISECOM-EXTOAM-MIB
	Support DSCP value markdown once over rate-limit		RAISECOM-EXTOAM-IVID RAISECOM-
T	Support dataflow-to-queue mapping once over rate-limit		IPSOURCEGUARS-MIB
Transparent Relay	BPDU DOT1X		RAISECOM-KEEPALIVE-MIB
	LACP		RAISECOM-OAM-MIB
	Specifying VLAN to receive specific multicast		RAISECOM-OPTICAL-
Digital Diagnostic	SFP digital diagnostic		MONITOR-MIB
			RAISECOM-PPPOEAGENT-
Cable Diagnostic	Support		MIB
Port Loopback	Individual port will be shutdown if loopback is detected		RAISECOM-QOS-MIB
Detection			RAISECOM-RCMP-MIB
Ethernet Ring	RAISECOM Ethernet ring: ≤ 50 ms recovery time		RAISECOM-RELAY-MIB
Dort Bookup	Max 8 ethernet rings, max 124 devices in each ring		RAISECOM-REMOTE-
Port Backup	Support		MANAGEMENT-LOCAL-MIB
Advanced Feature			RAISECOM-REMOTE- MANAGEMENT-REMOTE-
ACL	MAC-based ACL		MIB
	IP-based ACL		RAISECOM-RNDP-MIB
	ACL map (L2~L4 byte)		RAISECOM-RTDP-MIB
	User customized ACL(offset range:22~28 bytes)		RAISECOM-SCHEDULE-MIB
	Based on port, protocol & VLAN		RAISECOM-SYSLOG-
			SERVICE-MIB
			SWITCH-SYSTEM-MIB

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RC802-1X-MIB RCCFM RCDOT1AG

RAISECOM-UPGRADE-MIB RAISECOM-USER-MIB



QoS Filter	Support CoS-to-queue mapping Support DSCP-to-queue mapping Support port priority Override Support port TRUST mode Support TRUST port priority Support TRUST CoS priority Support TRUST DSCP priority Support Global queue scheduling Support 8 queue Support 8 queue Support SP / WRR / SP+WRR WRR weight range1 -255 Support flow statistics / flow-based mirroring / flow-based rate-limit / flow- based redirection / flow-based VLAN swapping / flow-based Change Cos / flow-based Change DSCP / flow-based Change IP priority Support ACL hardware filter Support egress port filter	MIB Management	RCQINQ RCSLA RCVLANGROUP RMONMIB SWITCH-AUTOCONFIG-MIB SWITCH-DAI-MIB SWITCH-DHCPCLIENT-MIB SWITCH-DHCPOPTION-MIB SWITCH-DHCPSNOOPING- MIB SWITCH-ERING-MIB SWITCH-FILTER-MIB SWITCH-IFEXTEND-MIB SWITCH-IPDHCPSERVER- MIB SWITCH-L3FILTER-MIB
	Support indicated ingress/egress port filtering Hardware support1024dataflow Support switch access IP packet filter		SWITCH-LINKSTATETRACK- MIB SWITCH-MACCONFIG-MIB
Safety Feature	User classifiaction & password protection RADIUS / TACAS+ / DOT1X Binding of MAC address & port Port protection PPPoE Agent Support ip source guard Support dynamic ARP inspection		SWITCH-MSTP-MIB SWITCH-MVR-MIB SWITCH-NTP-MIB SWITCH-PORTBACKUP-MIB SWITCH-PORTMIRROR-MIB SWITCH-PORTSTATISTIC- MIB
Maintenance	Debug information output PING (Packet Internet Groper) Telnet Client / Trace route / Port statistic / Port dynamic statistic		SWITCH-RATELIMIT-MIB SWITCH-RSTP-MIB SWITCH-SNMP-MIB
Password Recovery	Support		SWITCH-SYSTEM-MIB SWITCH-TRUNK-MIB
Management Feature			SWITCH-VLANCFG-MIB
System Management	CLI / ARP / Telnet / Console 16 Layer 3 interfaces, Super VLAN, max 4K VLAN Support SSH version 2 server(muti-clients) RMON1,2,3 & 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 auto configuration		
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 / DHCP Server / DHCP Option82		

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Standards

OAM	802.3ah OAM (Discovery, Link Performance, Remote loopback, Fault detection and Performance Stats per OAM standards) Support OAM MIB Variable Get Function OAM ACTIVE / PASSIVE Mode Extended OAM
CFM	802.1ag, Y.1731 protocol, support 256 MEP, 256 MA Connectivity Check Loopback / Linktrace
SLA	Layer-2 / Layer-3 SLA

Ordering Information

Part number	Description
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ISCOM2824G-AC/D	Manageable intelligent aggregation layer-2 switch, 20*10/100/1000BASE-T, 4 combo*1000BASE-X, redundancy AC power supply
ISCOM2824G-DC/D	Manageable intelligent aggregation layer-2 switch, 20*10/100/1000BASE-T, 4 combo*1000BASE-X, redundant DC power supply
ISCOM2824G-AC/S	Manageable intelligent aggregation layer-2 switch, 20*10/100/1000BASE-T, 4 combo*1000BASE-X, single AC power supply
ISCOM2824G-DC/S	Manageable intelligent aggregation layer-2 switch, 20*10/100/1000BASE-T, 4 combo*1000BASE-X, single DC power supply

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 v10v20v3 Multicast RMON I and II standards SNMPv10SNMPv2c0and SNMPv3 MEF9 MEF14

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