Datasheet

ISCOM2812GF Gigabit L2 Aggregation Fiber Switch

ISCOM2812GF is an intelligent L2 aggregation Ethernet Switch equipped with 12 Gigabit fiber ports. It has high-efficient L2 switching fabric that enables excellent wire-speed forwarding capability provision. Additionally, ISCOM2812GF 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. ISCOM2812GF is especially highlighted for its Q-in-Q function for enhanced user identification, and its pure fiber access structure brings carriers with more effective and advanced solution for Metro Ethernet, community, campus, office building and enterprise access aggregation.

ISCOM2812GF Gigabit L2 Metro Ethernet Aggregation Fiber Switch

Feature

Forwarding mode	Store-and-forward
Max frame size	1536 Bytes
Port rate limiting	Based on ingress and egress of each port, 64K 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 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 1000M ports in each trunk 6 types of load-sharing based on MAC and IP address
Mirror	Port-to-Multiport morroring, 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 The number of dynamic learned MAC address can be limited on per port
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
VLAN	IEEE802.1Q, double tagging (Q-in-Q), 4K active VLAN
Tranparent transmission	Support BPDU, Dot1x, LACP, GMRP, GVRP, and GARP on per 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 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 and SNTP server
Error tolerance	System error report, immediately recover in case of serious error
Advanced feature	

Specification

Performance	Switching fabric 24Gbps
Capacity	64MB SDRAM 4MB flash 32MB 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	10BaseT (RJ45, Cat3/Cat4/Cat5 UTP) 100BaseT (RJ45, Cat5 UTP) 1000BaseT (RJ45, Cat5 UTP) 1000BaseLX/BX/FX (LC fiber connector, single/multi mode)
Fixed port	4 combo (10/100/1000BaseT and 1000BaseFX auto crossover) 8 SFP (1000BaseFX)
Indicators	Power Supply, PWR1, PWR2 System (flashing)
Indicators for optical ports	LNK, ACT
Indicators for electrical ports	LNK/ACT for each port
Dimension	442(W)*235(D)*1U(H)mm
Weight	TBC
Power supply	AC: 90~264V, 47~63Hz DC: 36~75V
Power consumption	≤ 60W (at max load)

QoS	Support CAR (Committed Access Rate) function at 1M 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 Support re-mark function based on port ID, MAC address, VLAN, IEEE802.1p priority, diffServe amd IP TOS
Queue schedule algorithm	Strict Priority (SP), Weighted Round Robin (WRR), Bounded delay and hybrid (SP + WRR) schedule
ACL	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
Maintenance	Support debug information print Support PING (Packet Internet Groper) Support Telnet client
Default password restoration	Support

Working ambience	Temp: 0~45 centigrade RH: 20~90% non-condensing
Storage ambience	Temp: -25~85 centigrade RH: 20~90% non-condensing
Safety compliance	CE marking FCC Class A

Compliance

Standards & protocols	IEEE802.1w 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 100BaseBX (SFP) 100BaseFX (SFP) 100BaseLX (SFP) 1000BaseBX (SFP) 1000BaseSX 1000BaseLX/LH 1000BaseZX RMON I and II standards SNMPv1/v2c/v3

Ordering Information

Part Number	Description
ISCOM2812GF/AC/S	Manageable intelligent aggregation layer-2 switch, 4 combo interfaces, support 10/100/1000Base-T and 1000Base-X auto crossover, 8*1000M SFP hosting slots, 115v or 230V single AC power supply
ISCOM2812GF/AC/D	Manageable intelligent aggregation layer-2 switch, 4 combo interfaces, support 10/100/1000Base-T and 1000Base-X auto crossover, 8*1000M SFP hosting slots, 115v or 230V redundancy AC power supply
ISCOM2812GF/DC/S	Manageable intelligent aggregation layer-2 switch, 4 combo interfaces, support 10/100/1000Base-T and 1000Base-X auto crossover, 8*1000M SFP hosting slots, -48V single DC power supply
ISCOM2812GF/DC/D	Manageable intelligent aggregation layer-2 switch, 4 combo interfaces, support 10/100/1000Base-T and 1000Base-X auto crossover, 8*1000M SFP hosting slots, -48V redundancy DC power supply
USFP-GB/M	Rate: 1.25G, Transmission distance: 0.55km, Dual-strand fiber, multi mode, 850nm, General optical SFP module
USFP-GB/S1	Rate: 1.25G, Transmission distance: 40km, Dual-strand fiber, single mode, 1550nm, General optical SFP module
USFP-GB/S2	Rate: 1.25G, Transmission distance: 80km, Dual-strand fiber, single mode, 1550nm, General optical SFP module
USFP-GB/S3	Rate: 1.25G, Transmission distance: 40km, Dual-strand fiber, single mode, 1550nm, General optical SFP module
USFP-GB/SS13	Rate: 1.25G, Transmission distance: 15km, Single-strand fiber, single mode, 1310nmTX, General optical SFP module
USFP-GB/SS15	Rate: 1.25G, Transmission distance: 15km, Single-strand fiber, single mode, 1550nmTX, General optical SFP module
CSFP-GB/S	Rate: 1.25G, transmission distance: 40km, CWDM SFP optical module
CSFP-GB/L	Rate: 1.25G, transmission distance: 80km, CWDM SFP optical module