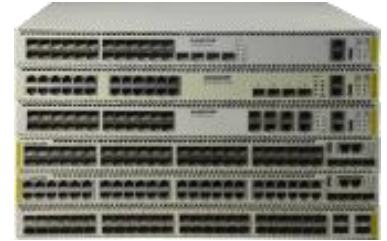




ISCOM2900 series switch

The ISCOM2900 series is an enhanced aggregation Ethernet switch. This series is CE2.0 certified and can operate as an aggregator for EDDs and access devices to meet for the scenario with all CE 2.0 devices. By adopting advanced Layer 2 switching structure, ISCOM2900 series provides high-efficient line speed switching capacity. With models that can support uplink 10G interfaces, ISCOM2900 series facilitate network expansion. By supporting static routes, ISCOM2900 series can implement seamless connection with Layer 3 routing devices. Additionally, ISCOM2900 series includes features such as QoS and ACL, complete network management, and high reliability; it can fully meet the carrier's network requirements. In addition, it can work as an aggregator for enterprises, schools, residential areas, and carrier CPN.



ISCOM2900

Highlights >>

High capacity, high density	1U standard chassis, easy to be installed on the cabinet, saving room, with a switching capacity of 176 Gbit/s Downlink interfaces: forty-eight 10/100/1000 Base-T electrical interfaces Uplink interfaces: four 1000 Mbit/s Combo interfaces or four 10 Gbit/s SFP+ interfaces
High reliability	Support STP, RSTP, and MSTP. Support Link Aggregation Control Protocols. Support ITU-T G.8032 and the fault switching time less than 50ms (the fault detection can be based on physical link) and support CFM inspection based on hardware. Support dual-system and dual-configuration-file redundancy backup.
Various security guarantees	Support IEEE 802.1x ACL based on interface and MAC modes and support various AAA mode such as RADIUS, TACACS+. Support port secure MAC and limits on the MAC addresses to stop attacks from illegal users. Support various ACL policies to control packet forwarding flexibly. Support DHCPv4/v6 Snooping and Option 82/18/37 to avoid DHCP attacks. Support DAI and IP Source Guard based on the DHCP binding table to prevent ARP flooding attacks and IP attacks. Support broadcast storm and loop detection to ensure the stability of the network. Support lightning protection for the power supply and all the Ethernet electric interfaces and protect hardware investment of the customer.
Individualized QoS	Support complex traffic classification. Support classifying traffic according to the custom fields in the packet. Support rich scheduling policy such as SP/WRR/SP+WRR/DRR/SP+DRR. Support dual-bucket three-color CAR based on the traffic and H-CAR. Support statistics based on traffic.
IPv6 Features	Support IPv6 ACL, DHCPv6 Snooping, RA Snooping and Option18/37 to ensure the network security. Support MLD Snooping to ensure the IPv6 multicast monitoring.
Full suite OAM & SLA	Support point-to-point IEEE802.3ah link monitoring.

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Support end-to-end hardware IEEE802.1ag to implement 3.3ms CC monitoring.
 Support rich SLA, Y.1731 and support monitoring the network performance of the L2/L3 data flow.

Advanced management system

Support SNMP, RMON, Telnet, and SSH and provide friendly WEB management interface to increase the usability of the device.
 Support automatic configuration and loading. The administrator can put the configuration file set in advance to the TFTP server for the automatic loading of the switch while it is booting, thus simplifying the management and maintenance.

Application >>

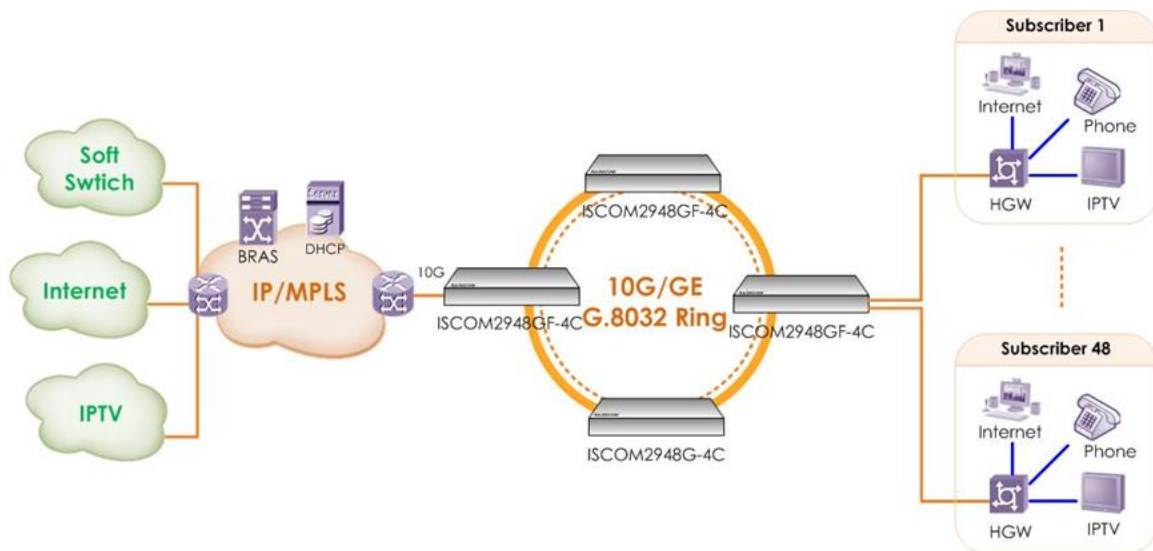


Figure.1 Application of the Gigabit access ring in the FTTx scenario

Key Features >>

Device	ISCOM2924G-4C	ISCOM2924GF-4GE	ISCOM2924GF-4C	ISCOM2948G-4GF	ISCOM2948GF-4C
Port type	Uplink: 4x10G SFP+ Downlink: 24xGE RJ45	Uplink: 4xGE Combo Downlink: 24xGE SFP	Uplink: 4x10G SFP+ Downlink: 24xGE SFP	Uplink: 4xGE SFP Downlink: 48xGE RJ45	Uplink: 4x10G SFP+ Downlink: 48xGE SFP
Management interface	1 SNMP interface, 1 Console interface, 1 out-of-band interface				
Switching capacity (Gbit/s)	128	56	128		176
Packet forwarding rate (Mpps)	95.23	41.66	95.23		130.94



Dimensions (mm)	440 (L) × 360 (W) × 43.6 (H)			
Weight (kg)	< 6.0		< 8.0	
Power consumption (W)	< 55	< 65	< 80	< 85
Voltage range	100–240 VAC, -32 to -72 VDC			
Hardware	<ul style="list-style-type: none"> ● Dual Power Supply, supporting AC/DC Power options ● Working temperature: 0–50°C ● Relevant humidity: 10%–90% RH (non-condensing) ● Lightning protection level (service interface/ power interface): 6 kV in common mode 			
Packet forwarding	<ul style="list-style-type: none"> ● MTU (12K) ● DLF control 			
MAC	<ul style="list-style-type: none"> ● MAC address table (32 K), static MAC address table (1024) ● MAC learning based on vlan ● Blackhole MAC ● MAC addresses limits based on the interface ● Port security MAC (1024 MAC Address) 			
VLAN	<ul style="list-style-type: none"> ● Dot1Q (4094 VLANs) ● Basic QinQ, flexible QinQ, protocol-based VLAN ● VLAN mapping (1:1, inner and outer VLAN mapping) ● GVRP/GMRP 			
L2 multicast	<ul style="list-style-type: none"> ● L2 multicast table (1K), static L2 multicast table (1K) ● IGMPv1, v2, v3 protocol ● IGMP Snooping ● IGMP VLAN copy ● IGMP Proxy ● IGMP Filter 			
ACL	<ul style="list-style-type: none"> ● MAC ACL (1000), IP ACL (1000), or IPv6 ACL (512) ● User defined ACL (512) ● ACL combination based on VLAN/CoS/MAC/EtherType/IP/L4 protocol 			
QoS	<ul style="list-style-type: none"> ● Trust mode: port-priority/CoS/ DSCP/ ToS ● Priority mapping: cos-mapping/dscp-mapping/tos-mapping/dscp-mutation-mapping/cos-remark-mapping ● Scheduling (8 queue/port): SP/WRR/SP+WRR/DRR/SP+DRR ● Policy (action: marking, mirror, statistic, policer) ● Shaping: per port/queue ● Bandwidth guarantee: CIR/CBS/EIR/EBS, MEF/RFC 4115, color aware 			

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- CAR: based on ingress (128)
- HCAR: based on ingress
- Performance statistic: based on ingress (64)

- Security**
- AAA: user, DOT1X (based on port or MAC), RADIUS, TACAS+
 - PPPOE+
 - DAI and IPSG (100 binding entries)
 - Storm control: broadcast, multicast, DLF
 - ARP Attack Protection

- Reliability**
- LACP (max groups = port number/2,max member = down link number)
 - STP, RSTP, MSTP, MRSTP
 - Interface backup
 - Failover
 - Loop detection
 - G.8032 v1/v2 (16 devices per ring, < 50ms)

- IPv4**
- Vlanif (16)
 - Vlanif IPv4 address (1 master,15 slaves)
 - ARP IPV4 (8K), static ARP IPV4 (256)
 - DHCP Client, DHCP Snooping, DHCP Option (61,82)
 - DHCP Server (800 pools, 10K IP Addresses)

- IPv6**
- ARP IPV6 (4K), static ARP IPV6 (256)
 - NDP
 - RA Snooping
 - DHCP Option (18,37)
 - MLD Snooping

- Route v4/v6**
- IPv4 static/default routing (512)
 - IPv6 static/default routing (512)

- OAM**
- IEEE802.3ah EFM
 - IEEE802.1ag CFM (128 MA, 128 LMEP, 256 RMEP)
 - ITU-T Y.1731 (LM/DM/SLM)
 - L1 loopback, L2 loopback (swap MAC)
 - L2/L3 SLA
 - IPv4/v6 Ping/Traceroute

- MEF**
- MEF 9 and 14
 - Compliant with MEF2.0 including E-Line, E-LAN, E-Tree, and E-Access

- System management**
- Console CLI, SNMPv1/v2/v3, telnet (10 sessions), & SSHv1/v2 (10 sessions),
 - RMON
 - LLDP, LLDP-MED
 - DDM

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- Alarm management, syslog management
- Mirror (based on port or flow, 2 groups)
- Backup system

Compliances >>

Management MIB	Standards & protocols
802-1x-2004-MIB	IEEE802.3
DISMAN-PING-MIB	IEEE802.3u
DOT3-OAM-MIB	IEEE802.3ad Link Aggregation
IEEE8021-CFM-IEEE802.1ag	IEEE802.1p
RFC1213	IEEE802.1Q VLAN
RFC1493	IEEE802.1ad QinQ
RFC1757	IEEE802.1D Spanning Tree Protocol
RFC1907	IEEE802.1w RSTP
RFC2233	IEEE802.1s MSTP
RFC2571	IEEE802.1x Security
RFC2572	IEEE802.3ah OAM
RFC2573N	IEEE802.1ag CFM
RFC2573T	ITU-T Y.1731 Services OAM
RFC2574	ITU-T G.8031 ELPS
RFC2575	ITU-T G.8032 ERPS
RFC2665	IGMP v1/v2/v3
RFC2737	SNMPv1/v2c/v3
RFC3014	MEF 9 & MEF 14
RFC3877	
RFC4363Q	
MEF 36 SOAM PM MIB	

Ordering Information >>

ISCOM2924G-4C-AC/DC/ D	24x10/100/1000 BASE-T + 4x1000M/10G SFP+, dual AC/DC power.
ISCOM2924G-4C-AC_DC	24x10/100/1000 BASE-T + 4x1000M/10G SFP+, AC plus DC power.
ISCOM2924GF-4C-AC/DC/D	24x100/1000 SFP + 4x1000M/10G SFP+, dual AC/DC power.
ISCOM2924GF-4C-AC_DC	24x100/1000 SFP + 4x1000M/10GE SFP+, AC plus DC power.
ISCOM2948G-4C-AC/DC/D	48x10/100/1000 BASE-T + 4x1000M/10G SFP+, dual AC/DC power.
ISCOM2948G-4C-AC_DC	48x10/100/1000 BASE-T + 4x1000M/10G SFP+, AC plus DC power.
ISCOM2948GF-4C-AC/DC/D	48x100/1000 SFP + 4x1000M/10G SFP+, dual AC/DC power.
ISCOM2948GF-4C-AC_DC	48x100/1000 SFP + 4x1000M/10G SFP+, AC plus DC power.
ISCOM2924GF-4GE-AC/DC/D	24x100/1000 SFP + 4x COMBO (100/1000BASE-X or10/100/1000BASE-T), dual AC/DC power.

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ISCOM2924GF-4GE-AC_DC	24x100/1000 SFP + 4x COMBO (100/1000BASE-X or10/100/1000BASE-T), AC plus DC power.
RPA1121-S-220S12	120w Pluggable AC Power
RPD1121-48S12	75w Pluggable DC Power
RPD1122-48S12	120w Pluggable DC Power

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