



## ISCOM2624GF-4C-HI

The ISCOM2624GF-4C-HI is the new-generation Ethernet switch independently developed by Raisecom, which can provide 24 GE optical interfaces (including 4 Combo interfaces) and four 10GE uplink interfaces. Based on the high-performance hardware platform and Raisecom new-generation route switching software platform, the ISCOM2624GF-4C-HI provides multiple features, such as flexible networking, various security control, and easy management and meanwhile support mature IPv6 and complete OAM. It can be widely applied to the MAN, enterprise network, residential area, and so on. It can aggregate services from small-sized networks or corridors in residential areas with broadband networks.



ISCOM2624GF-4C-HI

### Highlights >>

#### Flexible Ethernet networking

In addition to traditional STP/RSTP/MSTP spanning tree protocol, the ISCOM2624GF-4C-HI also supports the latest Ethernet Ring Protection Switching (ERPS) standard in the industry, which applies to various ring network topologies, such as single ring, tangent ring, and intersecting ring, and can provide sub-50ms protection switching to achieve carrier-grade reliability.

Support interface backup dual-homed protection, manual and static LACP to implement uplink backup, greatly improving reliability of access-side devices.

Support loop detection, automatic loop detection and loop elimination, to ensure stable operation of the network.

Support complete Ethernet OAM (IEEE802.3ah, 802.1ag) for quickly detecting link faults.

#### Various security control

Directly discard the illegal packets which mismatch the binding entries by establishing and maintaining the DHCP Snooping table. Ensure legality of DHCP server based on the feature of DHCP Snooping trusting interface.

Support multiple access control and user authentication technologies, such as dynamic ARP inspection, dot1x, RADIUS, TACACS+, IP Source Guard, and secure MAC, improving security of the network and devices.

Support abundant ACL security strategies based on source MAC address and destination MAC address, source IP address and destination IP address, source interface and destination interface, or protocol.

Support broadcast storm control, enhancing network security.

#### Easy maintenance and management

Support various management modes, such as SNMPv1/v2c/v3, Raisecom NMS, CLI, Web network management, Telnet, in-band management, and out-of-band management, which facilitate maintenance; support multiple encryption methods, such as SSH2.0, which make management more secure; support RMON and interface traffic statistics which, which facilitate network optimization and reconstruction.

Support MAC-based VLAN partitions, which is a good solution to the smart and flexible management of mobile offices.

The power interface is on the front panel, which simplifies the operation and maintenance (single-sided) of the entire device.

Support IPv6 management and authentication function, thus applicable to management in the IPv6 network

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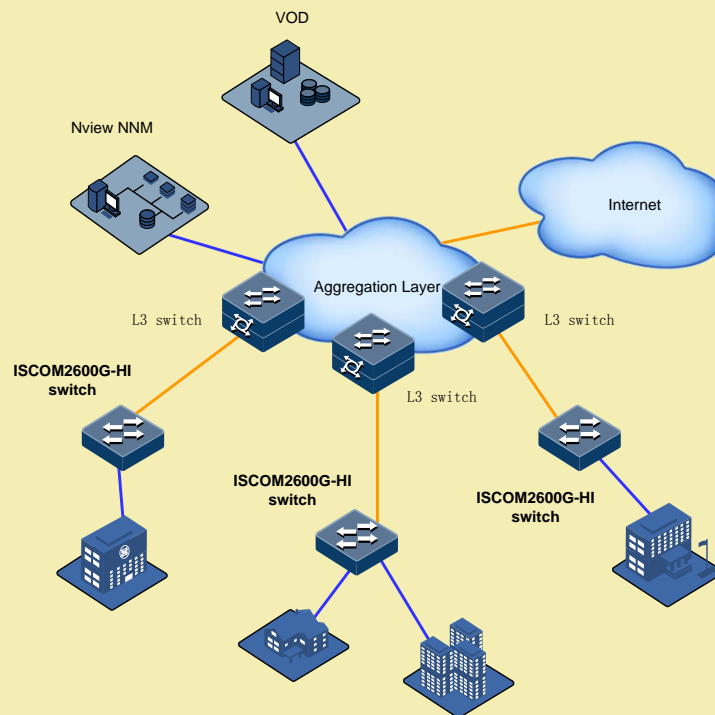
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management environment.

Support local port mirroring, RSPAN remote mirroring, and traffic mirroring, thus facilitating extraction and analysis of network traffic and taking measures accordingly.

**Application scenarios >>**



**Residential area broadband access**

In residential area broadband application, the ISCOM2624GF-4C-HI can implement small-scale aggregation by downstream accessing services from low-end switches and other data devices and upstream transmitting services to high-capacity Layer 3 switches through 1000 Mbit/s fibers, 10 Gbit/s fibers, and link aggregation.

**Key features >>**

Item	ISCOM2624GF-4C-HI
<b>Interface</b>	Twenty-four 1000Base-X 1000 Mbit/s (compatible with 100 Mbit/s) SFP interfaces (including 4 Combo interfaces) and four 10 Gbit/s SFP + interfaces or 1000 Mbit/s SFP interfaces
<b>Switching capacity</b>	128 Gbit/s
<b>Packet forwarding</b>	96 Mpps



## rate

**Dimensions** 440 × 220 × 43.6

**(mm) (Width  
× Depth ×  
Height)**

**Management interface**

- 1 RJ45 Console interface
- 1 SNMP out-of-band management interface

**MAC address table**

- 16K MAC addresses
- Automatic MAC address learning, MAC address aging, and static MAC address
- Static, dynamic, and blackhole MAC address entries
- MAC address limit based on interface or VLAN
- Managing MAC address flapping

**VLAN**

- 4K VLANs
- MAC/protocol/IP subnet/interface-based VLAN
- Basic QinQ and selective QinQ
- VLAN mapping
- Private VLAN
- Voice VLAN

**Jumbo frame** Supported, 12 Kbytes

**Ring network protection**

- ERPS (G.8032)
- STP/RSTP/MSTP
- BPDU Guard and root Guard
- Loop detection

**Reliability**

- Manual aggregation, static LACP
- Interface backup
- Ethernet OAM 802.3ah and 802.1ag

**IP routing** IPv4 and IPv6 static routes

**IPv6**

- IPv6 Ping, IPv6 Tracert, IPv6 Telnet, and IPv6 FTP/TFTP/SFTP
- IPv6 SNMP and Raisecom NView NNM IPv6 network management
- IPv6 RADIUS, IPv6 TACACS+, IPv6 NTP and SNTP
- IPv6 ACL
- ND
- IPv6 IP Source Guard
- DHCPv6 Snooping, and DHCPv6 Client

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<b>Multicast</b>	<ul style="list-style-type: none"><li>● IGMPv1/v2/v3 Snooping and immediate leave</li><li>● Interface/user-based immediate leave</li><li>● Static multicast group</li><li>● IGMP MVR</li><li>● MLDv1/v2 Snooping</li><li>● IGMP filter</li><li>● IGMP Proxy</li></ul>
<b>DHCP</b>	<ul style="list-style-type: none"><li>● DHCP Client</li><li>● DHCP Snooping</li><li>● DHCP Relay</li><li>● DHCP Server and Option 43</li><li>● DHCP Snooping Option 61/82 and DHCP Relay Option 82</li></ul>
<b>Mirroring</b>	<ul style="list-style-type: none"><li>● Traffic mirroring</li><li>● Local and remote port mirroring</li></ul>
<b>QoS/ACL</b>	<ul style="list-style-type: none"><li>● Rate limiting in the ingress direction and egress direction of the interface</li><li>● 8 queues for each interface</li><li>● SP, WRR, DRR, SP+WRR, and SP+DRR</li><li>● Packet redirection</li><li>● 802.1p and DSCP priority remarking for packets</li><li>● Interface-based traffic monitoring and dual-rate three-color CAR</li><li>● L2–L4 packet filtering based on source MAC address and destination MAC address, source IP address, destination IP address, TCP/UDP source/destination interface ID, protocol, and VLAN</li><li>● Hierarchy-CAR</li><li>● ACL in the egress direction</li></ul>

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## Security

- Hierarchical user management and password protection
- 802.1x authentication based on interface and MAC address
- CPU protection and anti-ARP attack
- Binding combinations of the IP address, MAC address, interface, and VLAN
- Blackhole MAC address
- MAC address limit
- AAA, RADIUS, and TACACS+
- Interface isolation
- Port security MAC
- SSHv2.0
- SFTP
- HTTPS
- DHCP Snooping and DHCP server which prevents against spoofing
- Dynamic ARP inspection, preventing MITM attacks and ARP DoS attacks
- BPDU Guard and root Guard

## Management

- Support ISF, 2 units.
- Management through the Console interface and out-of-band interface
- SNMPv1/v2c/v3 and various management modes, such as CLI, Web, Telnet, and SSHv2.0
- Raisecom NView NNM system
- RMON
- LLDP/LLDP-MED
- Syslog and hierarchical alarms
- Ping and Tracert
- Dying Gasp alarm
- NTP and SNTP
- Virtual cable test
- Interface loopback
- Interface loop detection
- Optical module DDM
- Link-state tracking
- Dual systems
- PPPoE+

## Lightning protection

Interface lightning protection: 6 kV

## Input voltage

- AC power: 220 VAC, 100–240 VAC, 50–60 Hz, 1 A
- DC power: -48 VDC, -36 to -72 VDC, 1.6 A

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**Maximum power consumption** 46 W

- Environment requirements**
- Operating temperature: 0–50°C
  - Relative humidity: 5%–90% (non-condensing)

## Ordering information >>

Product model	Description
ISCOM2624GF-4C-HI-AC/DC	Ethernet switch, twenty-four 1000 Mbit/s SFP interfaces (including 4 Combo interfaces), four 10 Gbit/s SFP+ optical interfaces (compatible with 1000 Mbit/s SFP), single AC or DC power supply

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