

ISCOM2608G-2GE/-PWR Series Switches

The ISCOM2608G-2GE/-PWR switches are the new-generation, environmental-friendly, and energy-saving Ethernet switches independently developed by Raisecom, which can provide 8*GE RJ-45 (POE) access and 2*GE SFP uplink interfaces. Based on the high-performance hardware platform and Raisecom new-generation switching software platform, the ISCOM2608G-2GE/-PWR switches provide multiple features, such as flexible networking, various security control, and easy management and meanwhile support mature IPv6 and intelligent PoE management. This series can be widely applied to multiple scenarios, such as enterprise park access and GE to desktop.



ISCOM2608G-2GE



ISCOM2608G-2GE-PWR

Highlights >>

Flexible Ethernet networking

In addition to traditional STP/RSTP/MSTP spanning tree protocol, also support 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.

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, 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.

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

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management environment.

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

Powerful and flexible PoE (for PoE models only)

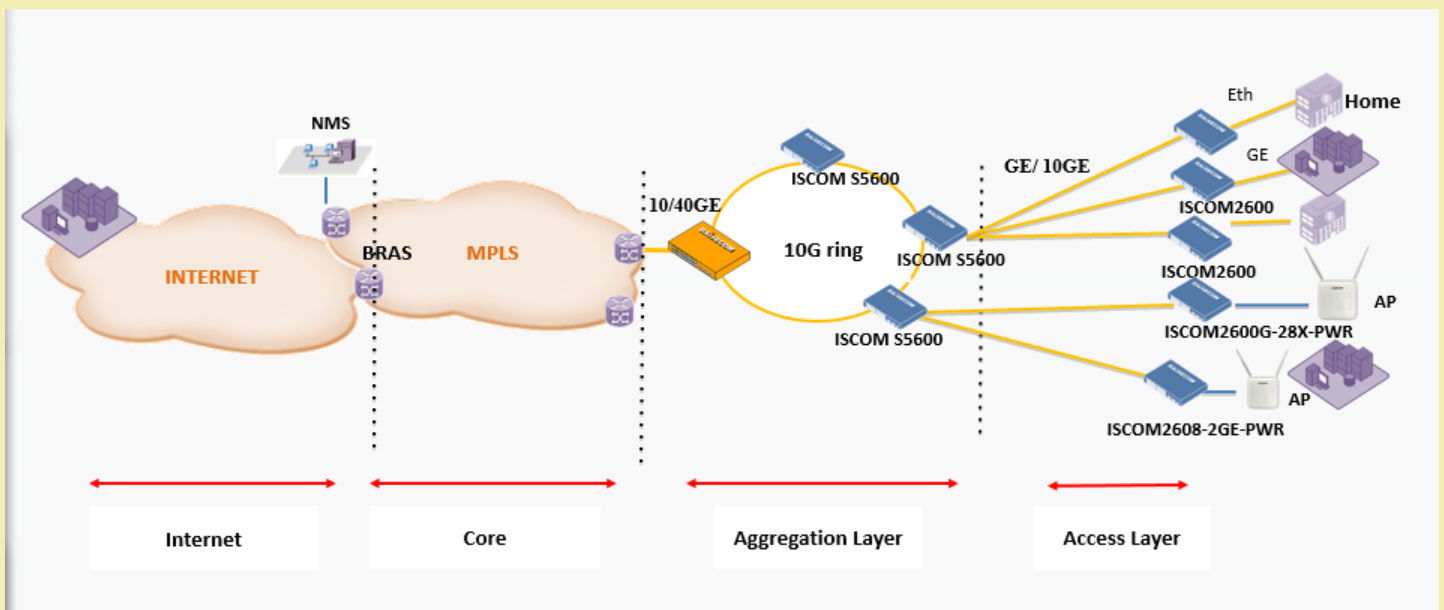
Comply with IEEE 802.3af and IEEE 802.3at standards. The interface can supply up to 30 W power.

Be compatible to PDs and provide forcible power supply mode for non-standard PDs.

Support intelligent PoE management, including enabling/disabling power supply to interfaces, configuring output power of interfaces, configuring priority of power supply, power overloading protection, overtemperature protection.

Support intelligent PoE power supply, including periodic power supply, periodically restarting PDs, monitoring connection status of PDs, and restarting PDs upon disconnection.

Application scenarios >>



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Enterprise park network access

In enterprise park access scenario, the ISCOM2608G-2GE series switches serve as the access devices and are connected upstream to the data devices in the enterprise/campus/residency and upstream to the L3 aggregation devices, accessing and transmitting the bandwidth, voice, Wi-Fi, and video services, thus meeting the users' requirements for high bandwidth and multi-service access.

Key features >>

Item	ISCOM2608G-2GE	ISCOM2608G-2GE-PWR
Interface	8* 10/100/1000Base-TX GE electrical interfaces + 2*100/1000M SFP optical interfaces	
Switching capacity	20 Gbit/s	
Packet forwarding rate	15 Mpps	
Dimensions (mm) (Width × Depth × Height)	<ul style="list-style-type: none"> ● ISCOM2608G-2GE: 260 × 130 × 43.6 ● ISCOM2608G-2GE-PWR: 300 × 220 × 43.6 	
Management interface	<ul style="list-style-type: none"> ● 1 RJ45 Console interface 	
MAC address table	<ul style="list-style-type: none"> ● 8K 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	<ul style="list-style-type: none"> ● 4K VLANs ● MAC/Protocol/IP subnet/Interface-based VLAN ● Basic QinQ ● VLAN mapping 	
Jumbo frame	Supported, 10 Kbytes	
Ring network protection	<ul style="list-style-type: none"> ● ERPS (G.8032) ● STP/RSTP/MSTP ● BPDU Guard and root Guard ● Loop detection 	
Reliability	<ul style="list-style-type: none"> ● Manual aggregation, static LACP ● Interface backup ● Ethernet OAM 802.3ah 	
IP route	<ul style="list-style-type: none"> ● Static route ● Route management 	

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IPv6	<ul style="list-style-type: none">● 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
Multicast	<ul style="list-style-type: none">● IGMPv1/v2/v3 Snooping and immediate leave● Interface/user-based immediate leave● Static multicast group● IGMP MVR● MLDv1/v2 Snooping● IGMP filter● IGMP Proxy
DHCP	<ul style="list-style-type: none">● DHCP Client● DHCP Server● DHCP Relay● DHCP Snooping● DHCP Option82/DHCP Option61/IPv6 DHCP Option18● Zero-configuration
Mirroring	<ul style="list-style-type: none">● Local port mirroring
QoS/ACL	<ul style="list-style-type: none">● Rate limiting in the ingress direction and egress direction of the interface● 8 queues for each interface● SP, WRR, DRR, SP+WRR, and SP+DRR● Packet redirection● 802.1p and DSCP priority remarking for packets● Interface-based traffic monitoring and dual-rate three-color CAR● 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

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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
- Dynamic ARP inspection, preventing MITM attacks and ARP DoS attacks
- BPDU Guard and root Guard

Management and maintenance

- Management through the Console 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 loop detection
- Optical module DDM
- Link-state tracking
- Dual systems

PoE (for PoE models only)

- IEEE 802.3af and IEEE 802.3at-compliant, up to 30 W power for the interface
- Forcible power supply mode for non-standard PDs
- PoE power management, such as enabling/disabling power supply to interfaces, interface output power configuration, priority of power supply configuration, power overloading protection, and overtemperature protection
- PoE timed power supply, periodical restart of PDs, PD connection monitoring, and restarting PDs upon disconnection.

Lightning protection

Interface lightning protection: 6 kV

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Input voltage	<ul style="list-style-type: none">● AC power: 220 VAC, 100–240 VAC, 50–60 Hz● DC power: -48 VDC, -36 to -72 VDC
Maximum power consumption	<ul style="list-style-type: none">● ISCOM2608G-2GE: 7 W● ISCOM2608G-2GE-PWR: 124 W for PoE
Energy saving and environmental protection	<ul style="list-style-type: none">● Support IEEE802.3az energy conservation.● ISCOM2608G-2GE adopts a fanless and silent design.● The ISCOM2608G-2GE-PWR (A) support smart adjustment of fan speed by temperature.
Environment requirements	<ul style="list-style-type: none">● Operating temperature: 0–50°C● Relative humidity: 5%–90% (non-condensing)

Ordering information >>

Product model	Description
ISCOM2608G-2GE-AC/DC	Eight 10/100/1000 Mbit/s Ethernet electrical interfaces, 2 100/1000 Mbit/s SFP optical interfaces
ISCOM2608G-2GE-PWR-AC/DC	Eight 10/100/1000 Mbit/s electrical interfaces (IEEE 802.3af/802.3at-compliant), 2 100/1000 Mbit/s SFP optical interfaces.

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