



ISCOM2600G Series 1000 Mbit/s Access Ethernet Switches

Overview

The ISCOM2600G series switches are the new-generation, environmental-friendly, and energy-saving Ethernet switches independently developed by Raisecom, which can provide 1000 Mbit/s access and 10 Gbit/s uplink interfaces. Based on the high-performance hardware platform and Raisecom new-generation switching software platform, the ISCOM2600G series switches provide multiple features, such as flexible networking, various security control, and easy management and meanwhile support mature IPv6 and intelligent PoE management. The ISCOM2600G series switches support Intelligent Stacking Framework (ISF), which means that multiple switches can be virtualized as one device logically to form a highly reliable, scalable, manageable, and intelligent network. This series can be widely applied to multiple scenarios, such as enterprise park access and GE to desktop.

Product model and appearance

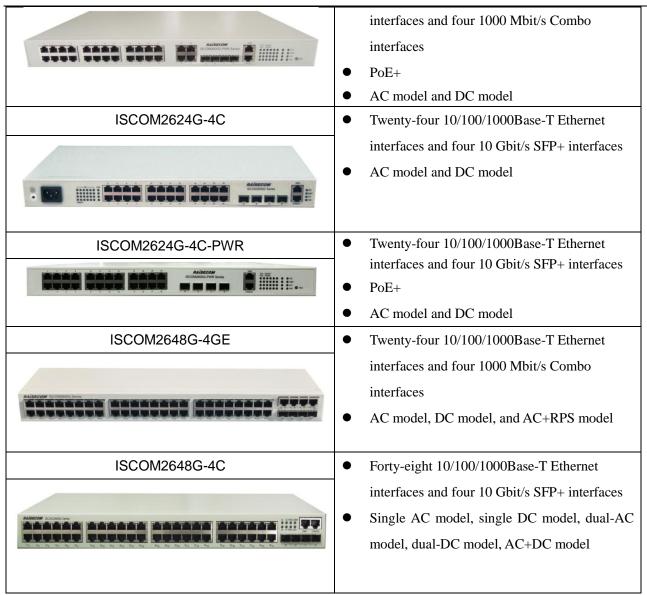
ISCOM2608G-2GE	Eight 10/100/1000Base-T Ethernet interfaces and two 1000 Mbit/s Combo interfaces
	AC model and DC model
ISCOM2608G-2GE-PWR	• Eight 10/100/1000Base-T Ethernet interfaces
	and two 1000 Mbit/s Combo interfaces
RAÍSECOM	• PoE+
	AC model and DC model
ISCOM2624G-4GE	• Twenty-four 10/100/1000Base-T Ethernet
	interfaces and four 1000 Mbit/s Combo
O COLUMN TO THE PROPERTY OF TH	interfaces
	AC model, DC model, and AC+RPS model
ISCOM2624G-4GE-PWR	Twenty-four 10/100/1000Base-T Ethernet

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Features

Flexible Ethernet networking

In addition to traditional STP/RSTP/MSTP spanning tree protocol, the ISCOM2600G series switches also support the latest Ethernet Ring Protection Switching (ERPS) standard defined in ITU-T G.8032, which applies to various ring network topologies, such as single ring, tangent ring, and intersecting ring, and can provide sub-50ms

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protection switching to achieve carrier-grade reliability.

The ISCOM2600G series switches support interface backup dual-homed protection, manual and static LACP to implement uplink backup, greatly improving the reliability of access-side devices, and also support G.8031 to implement end-to-end linear protection.

The ISCOM2600G series switches support loop detection, automatic loop detection and loop elimination, to ensure the stable operation of the network.

The ISCOM2600G series switches support complete Ethernet OAM (IEEE 802.3ah/802.1ag) to fast detect link faults.

Various security control

The ISCOM2600G series switches support multiple access control technologies and user authentication security technologies, such as ACL, Dot1X, RADIUS, and TACACS+ to flexibly adapt to multiple authentication requirements of the network environment.

ARP attacks and ARP virus are the number one threat to LAN security. The ISCOM2600G series switches support rich ARP defense functions, such as dynamic ARP detection which can check user validity and ARP packet validity, and ARP rate limiting which prevents the CPU from being impacted by a large number of ARP packets, and so on.

The ISCOM2600G series switches discard invalid packets that do not match the binding entry by establishing and maintaining the DHCP snooping binding table. By using the DHCP Snooping trusted interface, the ISCOM2600G series switches can also guarantee the legality of the DHCP server.

Easy maintenance and management

The ISCOM2600G series switches 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; and support RMON and interface traffic statistics which facilitate network optimization and reconstruction.

The ISCOM2600G series switches support automatic configuration downloading and software upgrade from the DHCP server, and batch remote upgrade through Raisecom NMS to reduce the operation and maintenance costs. The ISCOM2600G series switches support MAC-based VLAN partitions, which is a good solution to the smart and flexible management of mobile office.

The power interface on some models of the ISCOM2600G series switches is on the front panel, which simplifies the operation and maintenance (single-sided) of the entire equipment, and provides more flexible cabinet placement. You can place the cabinet against the wall or against the cabinet, saving the space.

With complete IPv6 management and certification functions, the ISCOM2600G series switches are suitable for the management in IPv6 network management environment.

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Powerful and flexible PoE (for PoE models only)

The ISCOM2600G series switches comply with IEEE 802.3af and IEEE 802.3at standards. The interface can supply up to 30 W power.

The ISCOM2600G series switches are well compatible to PDs and provide forcible power supply mode for non-standard PDs.

The ISCOM2600G series switches 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.

The ISCOM2600G series switches support intelligent PoE power supply, including timed power supply, periodically restarting PDs, monitoring connection status of PDs, and restarting PDs upon disconnection.

Raisecom ISF

The ISCOM2600G series switches support ISF, which means that up to 9 switches can be logically virtualized into one switch to simplify configurations and management. Device reliability can be improved through redundancy backup among member devices. Link reliability can be improved through link aggregation across devices. Interfaces and bandwidths can be easily expanded by adding member devices. The GE interfaces or 10GE interfaces can be stacked, which is of low cost and simple structure. The ISCOM2600G series switches also support long-distance stacking.

Technical specifications

	ISCOM2608G-2GE	ISCOM2624G-4GE	ISCOM2624G-4C	ISCOM2648G-	ISCOM2648G-4
Model	ISCOM2608G-2GE-P	ISCOM2624G-4GE-P	ISCOM2624G-4C	4GE	С
	WR	WR	-PWR		
	Eight	Twenty-four	Twenty-four	Forty-eight	Forty-eight
	10/100/1000Base-TX	10/100/1000Base-TX	10/100/1000Base-	10/100/1000Ba	10/100/1000Base
	1000 Mbit/s electrical	1000 Mbit/s electrical	TX 1000 Mbit/s	se-TX 1000	-TX 1000 Mbit/s
	interfaces and two	interfaces and four	electrical	Mbit/s	electrical
Interface	1000 Mbit/s Combo	1000 Mbit/s Combo	interfaces and 4	electrical	interfaces and 4
	interfaces	interfaces	10G SFP+/1G	interfaces and	10G SFP+/1G
			SFP optical	four 1000	SFP optical
			interfaces	Mbit/s Combo	interfaces
				interfaces	
Switching	256 Gbit/s	256 Gbit/s	256 Gbit/s	256 Gbit/s	256 Gbit/s
capacity	230 GUII/S	230 GUIVS	230 00178	250 0011/8	230 001/8

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Packet					
forwarding	15 Mpps	42 Mpps	96 Mpps	78 Mpps	131 Mpps
rate					
Dimensions	• ISCOM2608G-2GE: 260 × 130 × 43.6				
(mm) (Width ×	● ISCOM2608G-2G	E-PWR: $300 \times 220 \times 43$.6		
	● ISCOM2624G-4G	E, ISCOM2624G-4C: 44	$40 \times 220 \times 43.6$		
Depth ×	● ISCOM2624G-4G	E-PWR, ISCOM2624G-	4GE-PWR, ISCOM2	648G-4GE, ISCOM	12648G-4C: 440 ×
Height)	300 × 43.6				
Management	1 RJ45 Console in	terface			
interface	• 1 SNMP out-of-ba	nd management interface	2		
	16K MAC address	ses			
	Automatic learning	g and aging of MAC add	resses and static MAC	address	
MAC address	Static, dynamic, an	nd blackhole MAC addre	ss entries		
table	MAC address limi	t based on interface or V	LAN		
	Managing MAC as	ddress flapping			
	• 4K VLANs				
		subnet/interface-based V	LAN		
	Basic QinQ and se				
VLAN	VLAN mapping				
	Private VLAN				
	Voice VLAN				
	• GVRP				
Jumbo frame	Supported				
	• ERPS (G8032)				
Ring network	STP/RSTP/MSTP.	/MRSTP			
protection	BPDU protection a	and root protection			
	Loop detection				
	Manual aggregation, static LACP, and MC-LAG				
D 1: 1:11	Interface backup				
Reliability	• ELPS (G8031)				
	• Ethernet OAM 802	2.3ah and 802.1ag			
IP routing	IPv4 and IPv6 static rou	tes, RIP, OSPFv2, and R	IPng*		

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	IPv6 Ping, IPv6 Tracert, IPv6 Telnet, and IPv6 FTP/TFTP/SFTP
IPv6	IPv6 SNMP and Raisecom NView NNM IPv6 network management
	IPv6 RADIUS, IPv6 TACACS+, IPv6 NTP and SNTP
	IPv6 ACL IPv6 ACL
	ND
	 Manual Tunnel configuration IPv6 over IPv4 Tunnel
	IPv6 IP Source Guard
	 DHCPv6 Relay, DHCPv6 Snooping, and DHCPv6 Client
	- Total 17/2/15 Shooping and immediate feare
	Interface/user-based immediate leave
3.5.14	Static multicast group CAMPANAP
Multicast	• IGMP MVR
	MLDv1/v2 Snooping
	• IGMP filter
	IGMP Proxy
	DHCP Client
	DHCP Snooping
DHCP	DHCP Relay
	DHCP Server and Option43
	DHCP Snooping Option 61/82 and DHCP Relay Option 82
Minnenine	Traffic mirroring
Mirroring	Local and remote port mirroring
	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
QoS/ACL	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
	Packet filtering based on source IP address, destination IP address, TCP/UDP source/destination
	interface ID, protocol, and VLAN
	Hierarchy-CAR

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1	
	Hierarchical user management and password protection
	802.1x authentication based on interface and MAC address
	CPU protection and anti-ARP attack
	Group binding of IP address, MAC address, interface, and VLAN
	Blackhole MAC address
	MAC address limit
	• AAA, RADIUS, and TACACS+
Security	Interface isolation
	Port security MAC
	• SSHv2.0
	• SFTP
	• HTTPS
	DHCP Snooping and DHCP server which prevents against spoofing
	Dynamic ARP inspection, preventing MITM and ARP DoS
	BPDU guard and root guard
	• ISF
	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 alarm reporting
	Ping and Tracert
Management	Dying Gasp alarm
and	NTP and SNTP
maintenance	Virtual cable test
	Interface loopback
	Auto-provisioning, which means that configurations can be automatically downloaded and software
	upgraded from the DHCP server
	Interface loop detection
	Optical module DDM
	Link-state tracking
	DLDP unidirectional link detection
	• Dual systems

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	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
PoE (for PoE	configuration, priority of power supply configuration, power overloading protection, and
models only)	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
Toward and Hann	• AC power: 220 VAC, 100–240 VAC, 50–60 Hz
Input voltage	• DC power: -48 VDC, -36 to -72 VDC
	• ISCOM2608G-2GE: 15 W
36 .	• ISCOM2608G-2GE-PWR: 150 W (PoE: 124 W)
Maximum	● ISCOM2624G-4GE, ISCOM2624G-4C: 25 W
power	■ ISCOM2624G-4GE-PWR, ISCOM2624G-4C-PWR: 440 W (PoE: 370 W)
consumption	• ISCOM2648G-4GE: 38 W
	● ISCOM2648G-4C: 45 W
E	Support IEEE802.3az energy conservation.
Energy saving	The PWR models and ISCOM2648G-4C support smart adjustment of fan speed according to the
and environmental	temperature. Other models adopt a fanless and silent design.
	• The ISCOM2608G-2GE-PWR (A) support smart adjustment of fan speed according to the temperature
protection	while the ISCOM2608G-2GE-PWR (R) adopts a fanless and silent design.
Environment	● Operating temperature: 0–50 ℃
requirements	• Relative humidity: 5%–90% (non-condensing)

The feature marked with * is not released now but planned.

Networking application

Enterprise park network access

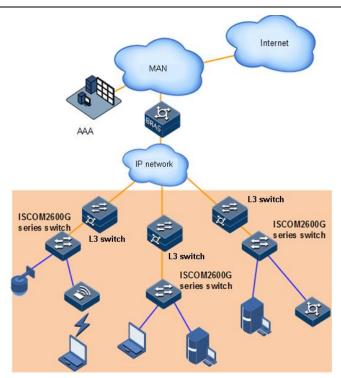
In enterprise park access scenario, the ISCOM2600G series switches serve as the access devices and are connected downstream to the data devices in the enterprise/campus/residency and upstream to the L3 aggregation devices, accessing and transmitting the bandwidth, voice, Wi-Fi, and video services, thus meeting the users' requirements for high bandwidth and multi-service access.

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Ordering information

Product model	Description
	Telecom MAN access Ethernet switch
	Twenty-four 10/100/1000 Mbit/s Ethernet electrical interfaces
ISCOM2624G-4GE-	4 Combo interfaces (four 1000 Mbit/s optical interfaces which support
AC/DC	100/1000 Mbit/s SFP optical modules and four 10/100/1000 Mbit/s electrical
	interfaces)
	Single AC/DC power supply
ISCOM2624G-4GE-	Telecom MAN access Ethernet switch
RPS-AC	Twenty-four 10/100/1000 Mbit/s Ethernet electrical interfaces
	4 Combo interfaces (four 1000 Mbit/s optical interfaces which support
	100/1000 Mbit/s SFP optical modules and four 10/100/1000 Mbit/s electrical
	interfaces)
	• 220 VAC power supply, one 12 V input RPS interface which can be connected
	to an additionally purchased RPS for power backup
ISCOM2624G-4C-A	Telecom MAN access Ethernet switch
C/DC	Twenty-four 10/100/1000 Mbit/s Ethernet electrical interfaces
	• 4 SFP+ 10GE optical interfaces (support 1000 Mbit/s SFP/10 Gbit/s SFP+

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	optical modules)
100001001001001	Single AC/DC power supply The AC/DC power supply
ISCOM2648G-4C-A	Telecom MAN access Ethernet switch
C/DC/S	Forty-eight 10/100/1000 Mbit/s Ethernet electrical interfaces
	• 4 SFP+ 10GE optical interfaces (support 1000 Mbit/s SFP/10 Gbit/s SFP+
	optical modules)
	Single AC/DC power supply
ISCOM2648G-4C-A	Telecom MAN access Ethernet switch
C/DC/D	• Forty-eight 10/100/1000 Mbit/s Ethernet electrical interfaces
	• 4 SFP+ 10GE optical interfaces (support 1000 Mbit/s SFP/10 Gbit/s SFP+
	optical modules)
	Dual AC/DC power supplies
ISCOM2648G-4C-A	Telecom MAN access Ethernet switch
C_DC	Forty-eight 10/100/1000 Mbit/s Ethernet electrical interfaces
	• 4 SFP+ 10GE optical interfaces (support 1000 Mbit/s SFP/10 Gbit/s SFP+
	optical modules)
	 Dual power supplies, one AC + one DC
ISCOM2648G-4GE-	Telecom MAN access Ethernet switch
AC/DC	Forty-eight 10/100/1000 Mbit/s Ethernet electrical interfaces
	4 Combo interfaces (4 optical interfaces which support 100/1000 Mbit/s SFP)
	optical modules and four 10/100/1000 Mbit/s electrical interfaces)
	Single AC/DC power supply
ISCOM2648G-4GE-	Telecom MAN access Ethernet switch
RPS-AC	Forty-eight 10/100/1000 Mbit/s Ethernet electrical interfaces
	4 Combo interfaces (4 optical interfaces which support 100/1000 Mbit/s SFP)
	optical modules and four 10/100/1000 Mbit/s electrical interfaces)
	 Single 220 VAC power supply, one 12 V input RPS interface which can be
	connected to an additionally purchased RPS for power backup
ISCOM2608G-2GE-	Telecom MAN access Ethernet switch
AC/DC	
AC/DC	• Eight 10/100/1000M Ethernet electrical interfaces
	2 Combo interfaces (2 optical interfaces which support 100/1000 Mbit/s SFP artical modules and true 10/100/1000 Mbit/s all attrical interfaces)
	optical modules and two 10/100/1000 Mbit/s electrical interfaces)
	• 1 SNMP interface
10001000000000	Single AC/DC power supply
ISCOM2608G-2GE-	• Layer 2 Ethernet switch
PWR-AC/DC	• Eight 10/100/1000 Mbit/s electrical interfaces (IEEE
	802.3af/802.3at-compliant)
	• 2 Combo interfaces (2 optical interfaces which support 100/1000 Mbit/s SFP
	optical modules and two 10/100/1000 Mbit/s electrical interfaces)
	Version A: single AC/DC power supply

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	Version R: single AC power supply
ISCOM2624G-4GE-	Layer 2 Ethernet switch
PWR-AC/DC	• Twenty-four 10/100/1000M electrical interfaces (IEEE
	802.3af/802.3at-compliant)
	• 4 Combo interfaces (4 optical interfaces which support 100/1000 Mbit/s SFP
	optical modules and four 10/100/1000 Mbit/s electrical interfaces)
	Single AC/DC power supply
ISCOM2624G-4C-P	Layer 2 Ethernet switch
WR-AC/DC	• Twenty-four 10/100/1000 Mbit/s electrical interfaces (IEEE
	802.3af/802.3at-compliant)
	• 4 SFP+ 10GE optical interfaces (support 1000 Mbit/s SFP or 10 Gbit/s SFP+
	optical modules)
	Single AC/DC power supply

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