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ISCOM2600G-PWR series switch

Intelligent Managed Access Gigabit POE Switch

The ISCOM2600G-PWR series provide high bandwidth L2 access PoE (Power over Ethernet) solutions complied with IEEE802.3af and IEEE802.3at, including ISCOM2608G-2GE-PWR and ISCOM2624G-4GE-PWR. ISCOM2600G-PWR switches can offer power supply for PD devices such as wireless Access Point, IP phone and surveillance camera. With 8/24 Gigabit Ethernet downlink interfaces (up to 30 Watts per port), the ISCOM2600G-PWR series guarantee the demands of different bandwidths coming with 802.11n Wifi, HD camera, etc.

The ISCOM2600G-PWR supports static route, so it can supply seamless connection with Layer 3 routing devices. With high capacity, high reliability and easy maintenance, individualized QoS, various security guarantees, and advanced system management, it can fully meet the carrier's network requirements.

ISCOM2600G-PoE

Highlights >>

Power over Ethernet	Complied with IEEE802.3af/at, PSE ports on PoE switches can offer power up to 30W per port for remote devices, while advanced PoE features like auto/manual electricity management, overheating protection, priority config (critical/high/low) and port max power config are also supported.
	Support Time-sharing power supply based on RTC chip.
High density	1U standard chassis, easy to be installed on the cabinet, saving room, with a switching capacity of 56 Gbit/s.
	Downlink interfaces: 8/24 10/100/1000 Base-T electrical interfaces.
	Uplink interfaces: 2/4 1000 Mbit/s Combo interfaces.
High reliability	Support STP, RSTP, MSTP, and multi-RSTP*.
	Support LACP.
	Support ITU-T G.8032 and the fault switching time less than 50ms
	Support dual-system and dual-configuration-file redundancy backup.
Various security guarantees	Support IEEE 802.1x ACL based on interface and MAC modes.
	Support various AAA mode such as RADIUS, TACACS+.
	Support loop-detection, port protection.
	Support port secure MAC and MAC address limitation 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 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.

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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.

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IPv6 Ready	Meet the requirement of IPv6 networking and support IPv6 remote management through Telnet, HTTP or SNMP.
	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	Support point-to-point IEEE802.3ah link monitoring.
	Support L2 loopback to confirm the link.*
	Support CFM, Y.1731 and support monitoring the network performance of the L2/L3 data flow. *
Advanced management system	Support SNMP, RMON, Telnet, and SSH.
	Support friendly WEB management to increase the usability of the device.*
	Support automatic configuration and loading. The administrator can put the configuration file set in advance to the FTP/TFTP server for the automatic loading of the switch while it is booting, thus simplifying the management and maintenance.

Application >>
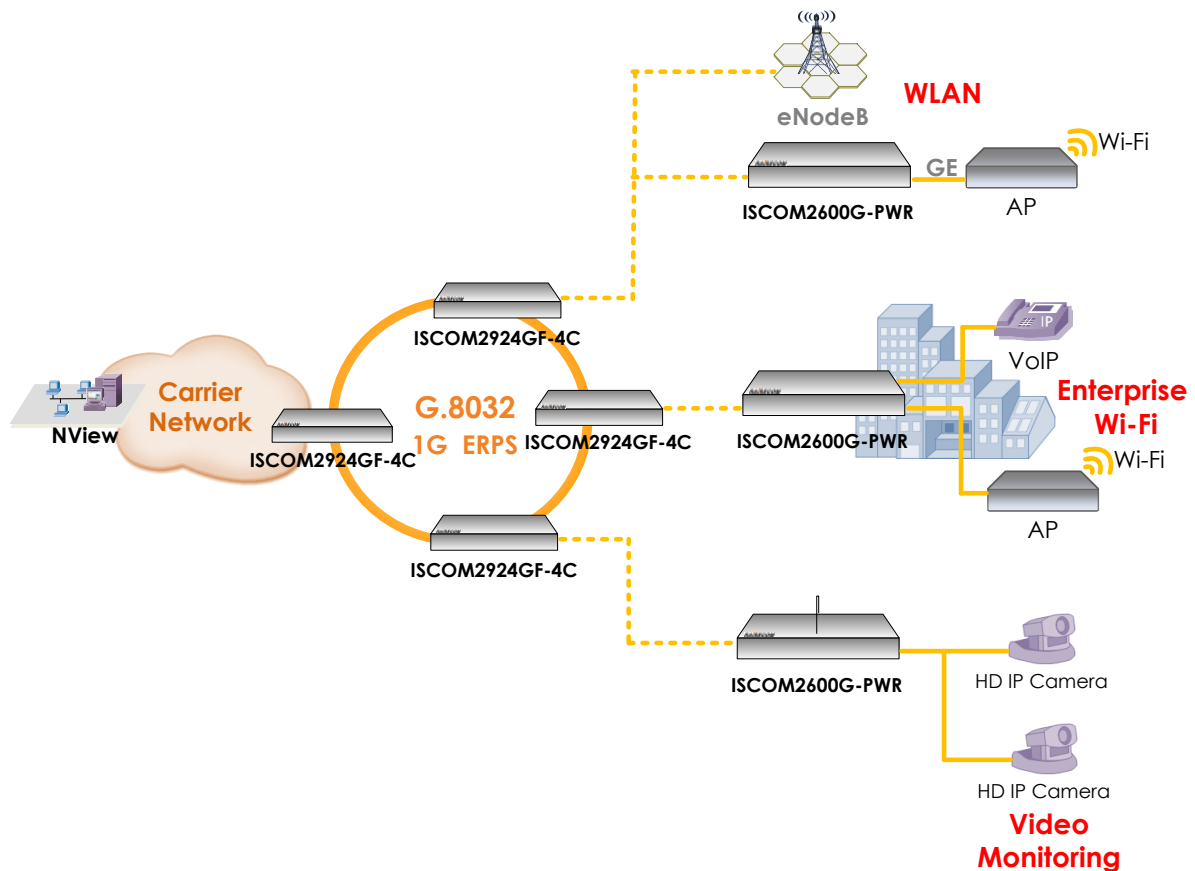
Figure.1 intelligent PoE switch deployed in WLAN, Enterprise wifi and Camera

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Key Features >>

Device	ISCOM2608G-2GE-PWR	ISCOM2624G-4GE-PWR
Port type	Uplink: 2xGE Combo Downlink: 8xGE RJ45	Uplink: 4xGE Combo Downlink: 24xGE RJ45
Management interface	1 SNMP interface, 1 Console interface, 1 out-of-band interface	
Switching capacity (Gbit/s)	20	56
Packet forwarding rate (Mpps)	14.88	41.66
Dimensions (mm)	300 × 220 × 43.6	440 × 300 × 43.6
Weight (kg)	2.5	4.95
Max Power(W)	150	440
Max PoE Power Supply(W)	124	370
PoE standard	support 802.3af and 802.3at 802.3af: <=15w 802.3at <=30w	
anti-thunder (power)	AC: 6kv / 6kv DC: 2kv / 4kv	
Hardware	• Power: single AC/DC • Fan: < 60dBA • Working temperature: 0–50°C • Relevant humidity: 10%–90% RH (non-condensing) • Voltage range: AC 220V(100~240V), DC 48V(-36~-72V) • anti-thunder (service interface): 6 kv	
Packet forwarding	• MTU (9K) • DLF control	
MAC	• MAC address table (16 K), static MAC address table (1024) • MAC learning based on vlan • Blackhole MAC • MAC addresses limits based on the interface • Port security MAC	
VLAN	• Dot1Q (4094 VLANs) • Basic QinQ, flexible QinQ, protocol-based VLAN • VLAN mapping (1:1, inner and outer VLAN mapping) • GVRP*	
L2 multicast	• L2 multicast table (512) • Static L2 multicast table • IGMPv1, v2, v3 protocol • IGMP Snooping	

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	• IGMP VLAN copy*
	• IGMP Proxy
	• IGMP Filter
ACL	• MAC ACL (400), IP ACL (400), IPv6 ACL (128)
	• User defined ACL (128)
	• ACL combination based on VLAN/CoS/MAC/EtherType/IP/L4 protocol
QoS	• 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
	• Congestion control: Tail Drop/RED
	• Policy (action: marking, mirror, statistic, policer)
	• Shaping: per port/queue
	• Bandwidth guarantee: CIR/CBS/EIR/EBS, MEF/RFC 4115, color aware
	• 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
	• Storm control: broadcast, multicast, DLF
Reliability	• LACP (max groups = port number/2,max member = down link number)
	• STP, RSTP, MSTP
	• Port backup
	• Port protection
	• Loop detection
	• G.8032 v1/v2 (16 rings, < 50ms)
IPv4	• Vlanif (16)
	• Vlanif IPv4 address (1 master,1 slave)
	• ARP IPV4 (1K), static ARP IPV4 (256)
	• DHCP Client, DHCP Snooping, DHCP Option (61, 82), DHCP Server
	• Proxy ARP
IPv6	• ARP IPV6 (512), static ARP IPV6 (128)
	• NDP
	• RA Snooping
	• DHCPv6 Option (18,37)
	• MLD Snooping
Route v4/v6	• IPv4 static/default routing (64)
	• IPv6 static/default routing (32)

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OAM	• IEEE802.3ah EFM
	• IEEE802.1ag CFM *
	• ITU-T Y.1731 (LM/DM/SLM)*
	• 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, SSHv2, WEB (low priority)*.
	• RMON
	• LLDP
	• DDM
	• Alarm management, syslog management
	• Automatic configuration
	• Mirror
	• RSPAN
	• Backup system

*roadmap

Ordering Information >>

ISCOM2608G-2GE-PWR-AC	8 x 10/100/1000BASE-T PoE ports (PSE) + 2 x COMBO(100/1000BASE-X or10/100/1000BASE-T), single AC power
ISCOM2608G-2GE-PWR-DC	8 x 10/100/1000BASE-T PoE ports (PSE) + 2 x COMBO(100/1000BASE-X or10/100/1000BASE-T), single DC power
ISCOM2624G-4GE-PWR-AC	24 x 10/100/1000BASE-T PoE ports (PSE) +4 x COMBO(100/1000BASE-X or10/100/1000BASE-T), single AC power
ISCOM2624G-4GE-PWR-DC	24 x 10/100/1000BASE-T PoE ports (PSE) + 4 x COMBO(100/1000BASE-X or10/100/1000BASE-T), single DC power