

10G Layer 2+ Rackmount Switch with 24 Ports Giga PoE and 4 Ports 1/10G SFP+

IRP628XG-24GP4XGF



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The **IRP628XG-24GP4XGF** is a high-performance **10G Layer 2+ rackmount PoE switch**, ideal for **IP surveillance, enterprise networks, and smart city applications**. It features **24 Gigabit PoE+ ports**, each delivering up to **30W**, and **four 10G fiber SFP ports** for high-speed data transmission. With **Layer 2+ IP routing, Surveillance VLAN, and LLDP-MED**, it optimizes video traffic and device management. Its **PoE+ capability** ensures reliable power delivery to **IP cameras, access points, and IoT devices**, making it perfect for large-scale **security and automation networks**. Built for reliability, it supports **ERPS, RSTP, and MSTP** for network redundancy and includes **advanced cybersecurity** features like **DHCP Snooping, IP Source Guard, and Dynamic ARP Inspection**.



High Throughput Ethernet Switching & Extreme 802.3at PoE+ Capacity

- 28-port with 24-port GbE RJ45, and 4-Port 10G Base-R(SFP/SFP+) fiber ports.
- Up to 24 GbE IEEE 802.3at/af compliant PoE+ ports, 15.4W simultaneously on 24 ports or 30W simultaneously on 12 ports
- Powerful 800MHz MIPS-34Kc processor
- Energy-Efficient Ethernet for power saving
- Non-blocking switch fabric design
- 8 flexible Class of Service(CoS) queues, 1K Multicast Groups for video applications
- 16K MAC address table, 10KB Jumbo Frame
- PoE management including per-port PoE Status, PoE Scheduling

Layer 2+ Switch and Router

- Layer 2+ IP Routing includes, Static Route and Dynamic Routing protocols, RIP, OSPF ,and VRRP

ITU-T G.8032 v2 ERPS Ring Redundancy

- ITU-T G.8032 v1/v2 ERPS Standard Ring Redundancy protocol
- Less than 50ms recovery time, seamless restoration time
- Inter-Operability with 3rd party industrial switch and still remain fast recovery time
- Replace Ring + Chain + Dual Homing

Cyber Security

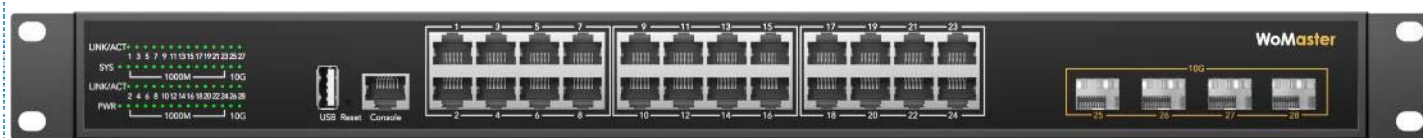
- MAC/IPv4/IPv6 Access Control List (ACL)
- DHCP Snooping, IP Source Guard, Dynamic ARP Inspection
- 802.1Q VLAN, Port Security
- Multi-Level user passwords
- TACACS+, IEEE 802.1X, SNMPv3, HTTPS, and SSH to enhance network security
- 802.1X MAB for non-802.1X compliant end devices
- RADIUS/TACACS+ centralized password authentication

Industrial Grade Management

- Various configuration paths, including WebGUI, CLI, SNMP and RMON
- Command line interface (CLI) for quickly configuring major managed functions
- SNMPv1/v2c/v3 for different levels of network management
- RMON enables proactive monitoring, real-time insights, and efficiency.
- Surveillance VLAN simplify the deployment of network security monitoring systems by isolating monitoring traffic from data traffic, while improving security and improving network performance.
- LLDP and LLDP-MED enhance device discovery, automate network configuration, improve interoperability, and support location-based services.



Interfaces

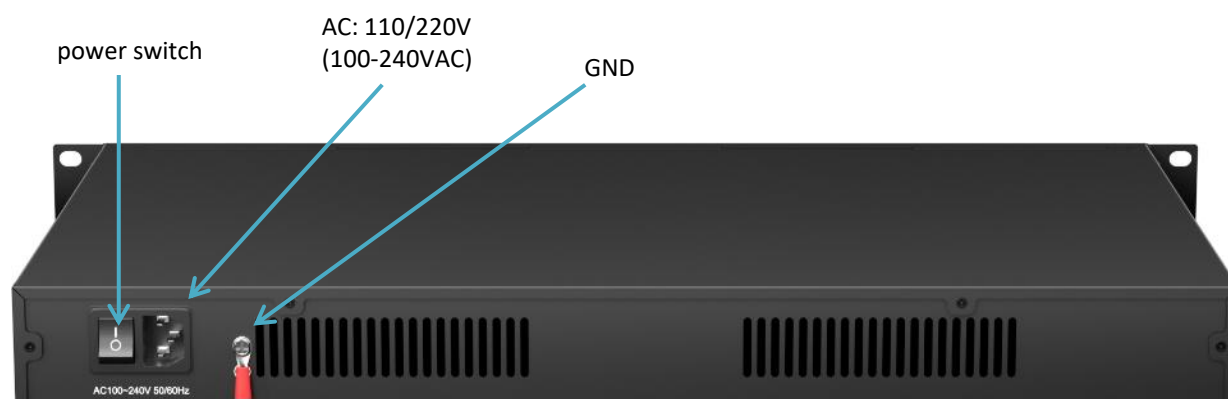


Power、System、
Link/ACT LED

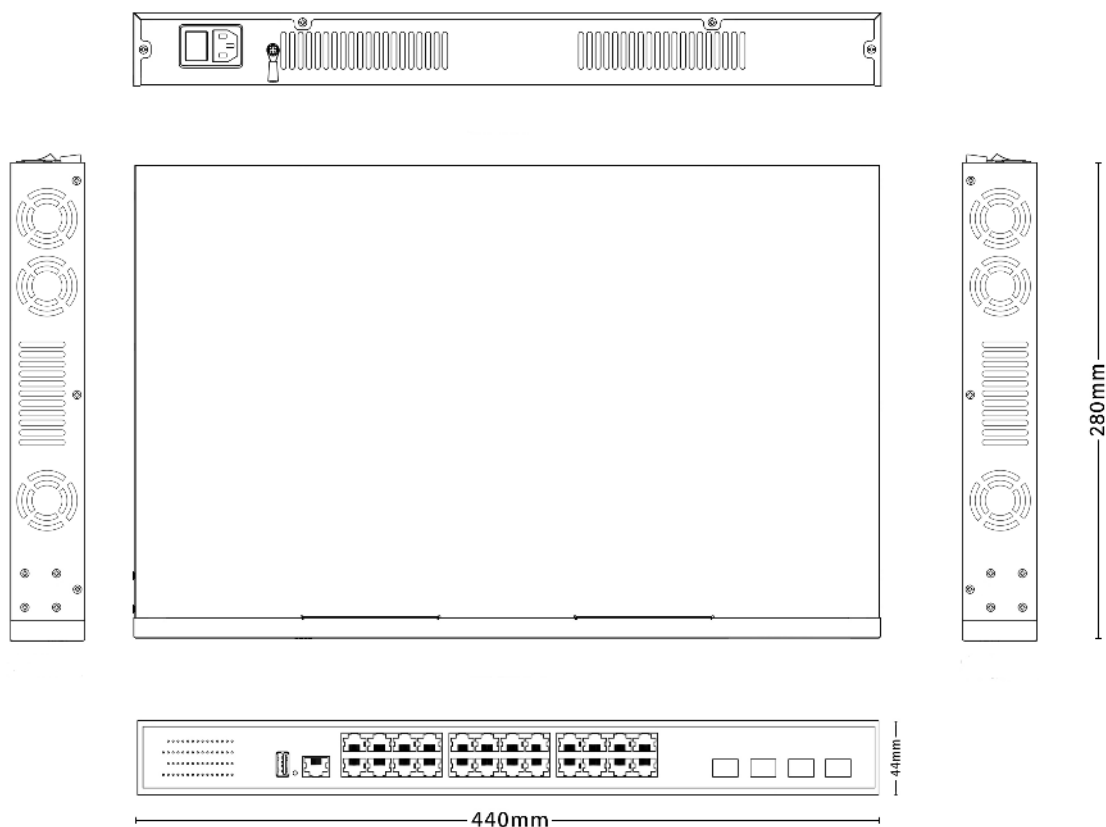
24x 100/1000M RJ-45 PoE+

4x 1000M/10G SFP Fiber

- Reset Button
- Console for management
- USB for Configuration/Firmware update



Dimensions



Technology	
Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3u 100Base-FX Fast Ethernet Fiber
	IEEE 802.3ab 1000Base-T Gigabit Ethernet copper
	IEEE 802.3z Gigabit Ethernet Fiber
	IEEE 802.3x Flow Control and back-pressure
	IEEE 802.3az (Energy Efficient Ethernet)
	IEEE 802.1p Class of Service (CoS)
	IEEE 802.1Q VLAN and GVRP
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP)
	IEEE 802.1S Multiple Spanning Tree Protocol (MSTP)
	IEEE 801.1AX/802.3ad Link Aggregation Control Protocol (LACP)
	IEEE 802.1x Port based Network Access Protocol
	ITU-T G.8032 version 2 Ethernet ring protection switching(ERPSv2)
Performance & Scalability	
Switch Technology	Store and Forward Technology with 176Gbps Non-Blocking Switch Fabric Forwarding rate: 95.23Mpps
CPU	800MHz MIPS-34Kc
RAM	2GB
Packet Buffer Memory	12Mbits
Number of MAC Address	16K
Jumbo Frame	10K Bytes
VLAN	4K VLANs
IGMP Groups	1K
Traffic Prioritize	8 Priority Queues per Port
Interface	
Ethernet Port	24 x 10/100/1000M RJ45, 24 x 802.3af/at PoE, Auto Negotiation 4 x 10G Base-R (SFP/SFP+), DDM Energy-Efficient Ethernet for power saving
System LED	Ready : Green On
Power LED	Red On
Giga Ethernet Port LED	Link (Green On), Activity (Green Blinking), Speed 1000M(Amber On), Speed 10M/100M(Off)
10G SFP Port LED	Port: Link (Green On), Activity (Green Blinking)Speed 10G(Amber On), Speed 1000M(Off)
Reset	Default Settings Reset(over 7 Seconds)
Console	1 x RJ45 based RS232 for System Configuration. Baud Rate: 115200.n.8.1

Power Requirement	
Operating Voltage	AC Input: AC 100~240VAC, 50/60Hz
Power Consumption	System idle: 12.7W;System full without PoE:40W;PoE full:400W
PoE	
Power forwarding mode	802.3at Alternative A
PoE Power Budget	Max PoE Power Budget: 360W 15W simultaneously on 24 ports 30W simultaneously on 12 ports
PoE Standard	IEEE 802.3at PoE+, IEEE 802.3af PoE
Management	PoE Status, PoE Scheduling
Software	
Management	WebGUI, Command Line Interface (CLI), IPv4/IPv6(RFC2460), Telnet, SNMP v1/v2c/v3, SNMP Trap/Informs, RMON, LLDP, DHCP Server/Client/Option 43/Option 82, TFTP, System Log
Traffic Management	Flow Control, Rate Control, Port Mirror, CoS, QoS
Filter	IGMP Snooping v1/v2/v3, IGMP Snooping Fast-Leave/Immediate-Leave, MLD Snooping, MVR, IGMP Query,IEEE802.1Q VLAN, QinQ, GVRP, Voice VLAN, Surveillance VLAN
Security	IEEE 802.1X/RADIUS, TLS v1, HTTPs/SSH
Advanced Security	TACACS+, Mutli-user authentication, IEEE802.1x MAB, DHCP Snooping/IPSG, Dynamic ARP inspection, DoS, Adv. Port security
Redundancy	ITU-T G.8032 v1/v2 Ethernet Ring Protection Switching (ERPSv2), Loop Protection, Port Trunk/801.1AX/802.3ad LACP, Rapid Spanning Tree Protocol/Spanning Tree Protocol (RSTP/STP), Multiple Spanning Tree Protocol (MSTP),VRRP
Time Management	NTP
Layer 2+	Routing: RIPv2, OSPFv2, Static Routing (100 entries)
Mechanical	
Installation	Rackmount
Enclosure Material	Steel Metal
Dimension	440(W) x 44(H) x 280(D)mm
Weight	3KG
Cooling	FAN : Forced-Air Cooling



Specifications

Environmental

Operating Temperature & Humidity	-10°C~50°C , 10%~90%RH
Storage Temperature	-40°C~75°C, 5%~90%RH
MTBF	100,000 hours
Warranty	1 year

EMC&INGRESS PROTECTION

Surge	Power: Common mode: 4KV;Differential-Mod: 2KV Ethernet Port: Common mode: 4KV;Differential-Mod: 2KV
ESD	Contact:8KV; Air:15KV
Free Fall	0.5m



Ordering Information

Model Name	Description
IRP628XG-24GP4XGF-E/U/UK	Rackmount L2+ PoE+ Switch with 24 Ports 802.3at PoE+ and 4 Ports 1G/10G SFP+, AC100~240V input

Package List

- 1 x Product Unit (Without SFP Transceiver)
- 1 x Power Cord EU or US or UK
- 1 x Quick Installation Guide



Optional Accessory

SFPGEM05DT	1000M	550M	Multi	SFP, 1000Mbps, LC, multi, DDM, 550M, -40~85°C
SFPGES10DT	1000M	10KM	Single	SFP, 1000Mbps, LC, single, DDM, 10KM, -40~85°C
SFPGES30DT	1000M	30KM	Single	SFP, 1000Mbps, LC, single, DDM, 30KM, -40~85°C
SFPXGM03D	10G	300M	Multi	SFP+, 10Gbps, LC, multi-mode, DDM, 300M, 0~70°C
SFPXGM03DT	10G	300M	Multi	SFP+, 10Gbps, LC, multi-mode, DDM, 300M, -40~85°C
SFPXGS10D	10G	10KM	Single	SFP+, 10Gbps, LC, single-mode, DDM, 10KM, 0~70°C
SFPXGS10DT	10G	10KM	Single	SFP+, 10Gbps, LC, single-mode, DDM, 10KM, -40~85°C