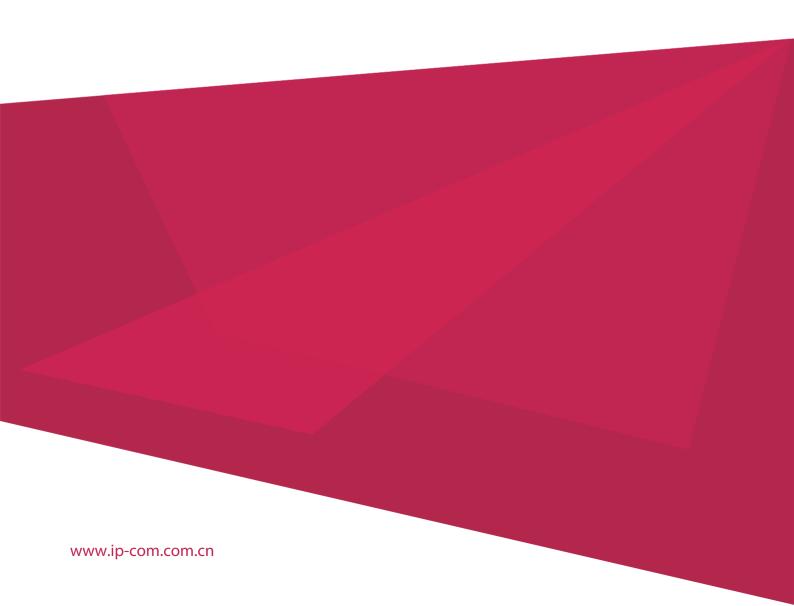# IP-COM
World Wide Wireless

G5312F

L3 Managed Switch

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Products Description

G5312F is an IP-COM Layer-3 managed switch. To meet the demand of high-performance access, the switch provides 10 10/100/1000 Mbps Base-T Ethernet ports and 2 separate 1000 Mbps Base-X SFP ports. With an innovative hardware structure and software platform, it features a powerful processing capacity and complete security protection mechanism, making management and maintenance easy and simple, fully meeting the demands of high-density user access and high-performance aggregation, ideal for the aggregation layer or access layer of such medium to large networks as enterprises and campuses.

Key Feature

- Comply with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1p, IEEE 802.1q, IEEE 802.1w, IEEE 802.1d, IEEE 802.1s standards
- 10 x 10/100/1000 Base-T Ethernet ports , 2 separate 1000 Base-X SFP ports
- 16 K MAC address table and MAC address auto-learning
- Supports abundant services, such as static routing, VLAN, IGMP, QoS, ACL, DHCP Snooping, ARP and Telnet
- Built-in 6 kV professional lightning protection power, 13 inch/1 u standard
- desktop and rack-mounted design

Product Features

Dual 6 kV professional lightning protection
Provides dual 6 kV port and power lightning protection, and supports multiple protection features, such as power over-temperature and overvoltage protection, and surge current protection.

Layer-3 routing protocol
Supports Layer-3 static routing protocol, meeting the demand of the 3-layer networking environment in which Layer-3 networks should be interconnected while Layer-2 networks should be isolated, thus realizing an efficient and fast layer-3 routing forwarding.

Sound security features
Supports IP address filtering, MAC address filtering, ARP filtering, DoS attack defense, and ACL access control list, improving network security.
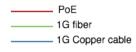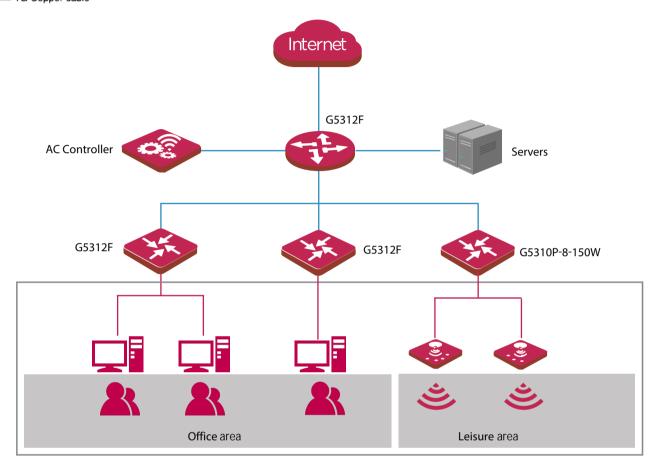
Map visualization
Auto discovery of ONVIF based ip-carmera and access point.
Support automatically topology generate.

Application Scenarios

PoE
1G fiber
1G Copper cable

Internet

G5312F

AC Controller

Servers

G5312F

G5312F

G5310P-8-150W

Office area

Leisure area

Product Model	G5312F
Hardware specifications	
Network standards	IEEE802.3、 IEEE802.3u、 IEEE802.3ab、 IEEE802.3z、 IEEE802.3x、 IEEE802.1p、 IEEE802.1q、 IEEE802.1w、 IEEE802.1d、 IEEE802.1s
LED indicators	One Link/Act LED indicator for each port One Power LED indicator for each device One SYS LED indicator for each device
Fixed ports	10 x 10/100/1000 Base-T Ethernet ports 2 x 1000 Base-X SFP ports
Port lightning protection	≥6 kV
Forwarding mode	Store-and-forward
MAC address table	16K
PoE power supply	N/A
Input voltage	100-240V～ 50/60Hz
Dimensions (W x D x H)	294 mm x 179.6 mm x 44 mm
Whole switch consumption	Whole switch consumption: <18W
Operating environment	Operating temperature: 0℃ - 40℃ Storage temperature: -40℃ - 70℃ Operating humidity: (10% - 90%)RH, non-condensing, Storage humidity: (5% - 90%)RH, non-condensing
Software specifications	
Map visualization	Auto discovery of ONVIF based ip-carmera and access point. Support automatically topology generate.

Security features	ARP receiving limit Unknown MAC address discard DoS attack defense 802.1x security authentication Radius authentication
VLAN	IEEE 802.1Q VLAN VLAN Layer-3 interfaces Supports three port modes: Access, Trunk and Hybrid
DHCP	DHCP Server DHCP Relay DHCP Snooping Supports Option 82 policy configuration
L3 Routing	VLAN-based routing IPv4 static routing Supports static ARP adding/deleting Supports ARP aging time configuration
Port aggregation	Static aggregation LACP dynamic aggregation
Spanning tree	IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) Supports edge port Supports BPDU statistics
Multicast	IGMP Snooping V1/V2/V3 Supports port fast leave
Port Mirroring	Supports N: 1 port mirroring
QoS	SP (Strict Priority) SWRR (Simple Weighted Round Robin) WRR (Weighted Round Robin) Supports 802.1p port trust mode Supports DSCP port trust mode Supports a maximum of 8 queue service quality mapping)
ACL	Supports MAC ACL and IP ACL
Loading and upgrade	Supports FTP/TFTP/HTTP upgrade Supports configuration import and export
Management and maintenance	Telnet, Console SNMP V1/V2/V3 WEB management and maintenance Ping/Tracert/Connection Detection Cloud management
Certificates	CCC、FCC、CE、RoHS

www.ip-com.com.cn

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Headquarters