

**IP-COM**  
World Wide Wireless

# G5312F

L3 Managed Switch

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## 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.

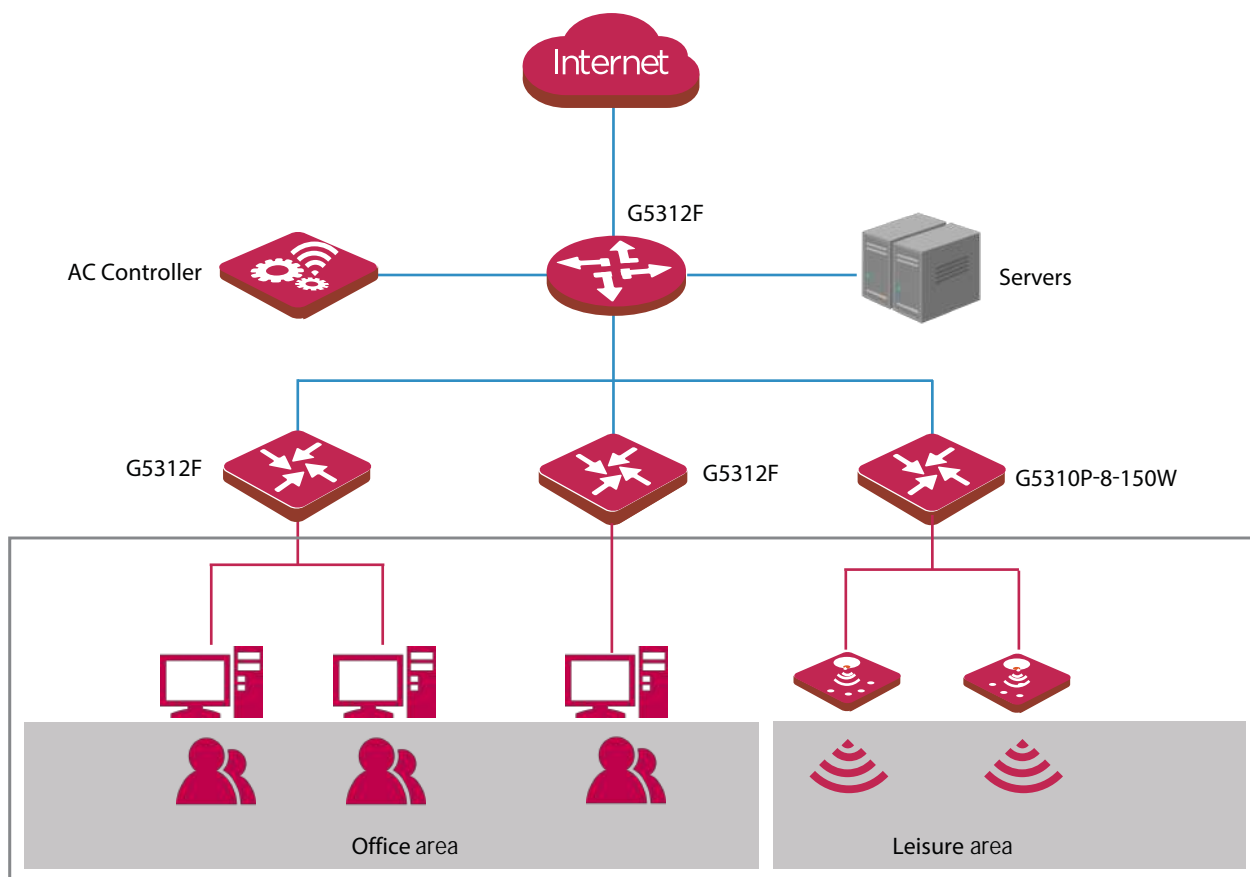


### Map visualization

Auto discovery of ONVIF based ip-camera and access point.  
Support automatically topology generate.

# Application Scenarios

- PoE
- 1G fiber
- 1G Copper cable



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°C - 40°C Storage temperature: -40°C - 70°C Operating humidity: (10% - 90%)RH, non-condensing, Storage humidity: (5% - 90%)RH, non-condensing
Software specifications	
Map visualization	Auto discovery of ONVIF based ip-camera and access point. Support automatically topology generate.

Security features	<ul style="list-style-type: none"> <li>ARP receiving limit</li> <li>Unknown MAC address discard</li> <li>DoS attack defense</li> <li>802.1x security authentication</li> <li>Radius authentication</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>IEEE 802.1Q VLAN</li> <li>VLAN Layer-3 interfaces</li> <li>Supports three port modes: Access, Trunk and Hybrid</li> </ul>
DHCP	<ul style="list-style-type: none"> <li>DHCP Server</li> <li>DHCP Relay</li> <li>DHCP Snooping</li> <li>Supports Option 82 policy configuration</li> </ul>
L3 Routing	<ul style="list-style-type: none"> <li>VLAN-based routing</li> <li>IPv4 static routing</li> <li>Supports static ARP adding/deleting</li> <li>Supports ARP aging time configuration</li> </ul>
Port aggregation	<ul style="list-style-type: none"> <li>Static aggregation</li> <li>LACP dynamic aggregation</li> </ul>
Spanning tree	<ul style="list-style-type: none"> <li>IEEE 802.1d STP (Spanning Tree Protocol)</li> <li>IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)</li> <li>IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)</li> <li>Supports edge port</li> <li>Supports BPDU statistics</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>IGMP Snooping V1/V2/V3</li> <li>Supports port fast leave</li> </ul>
Port Mirroring	<ul style="list-style-type: none"> <li>Supports N: 1 port mirroring</li> </ul>
QoS	<ul style="list-style-type: none"> <li>SP (Strict Priority)</li> <li>SWRR (Simple Weighted Round Robin)</li> <li>WRR (Weighted Round Robin)</li> <li>Supports 802.1p port trust mode</li> <li>Supports DSCP port trust mode</li> <li>Supports a maximum of 8 queue service quality mapping)</li> </ul>
ACL	<ul style="list-style-type: none"> <li>Supports MAC ACL and IP ACL</li> </ul>
Loading and upgrade	<ul style="list-style-type: none"> <li>Supports FTP/TFTP/HTTP upgrade</li> <li>Supports configuration import and export</li> </ul>
Management and maintenance	<ul style="list-style-type: none"> <li>Telnet, Console</li> <li>SNMP V1/V2/V3</li> <li>WEB management and maintenance</li> <li>Ping/Tracert/Connection Detection</li> <li>Cloud management</li> </ul>
Certificates	<ul style="list-style-type: none"> <li>CCC、FCC、CE、RoHS</li> </ul>

# IP-COM

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