# IP-COM

**World Wide Wireless**

# G3224T

## 24-Port Gigabit Managed Switch 2 combo SFP Slots

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## 24-Port Gigabit Managed Switch with 2 combo SFP Slots

# Products Description

G3224T is a green energy-conservation layer2 managed switch which is researched and developed and designed independently. It is specially designed to build a fast, convenient and easy-maintained wired aggregation and access network. G3224T apply with the world's leading chipset vendor Broadcom solution, which brings a strong switch performance. It provides fruitful management features and security protection system. With high enterprise-level art, it is the ideal high performance solution to build gigabit wired access network (SMBs, education, hotels, bars, parks and data center access).



- 24 10/100/1000Mbps RJ45 ports, 2 combo Gigabit SFP slots
- 19-inch rack-mountable, 1U steel case
- Web managed, easy to use

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# Key Feature

- Compliant with IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3ab
- Store & forward, share memory, non-blocking architecture
- Supports MAC address self-learning and auto MDI/MDIX
- Provide 24 10/100/1000Mbps auto-negotiation ports，2 Gigabit combo SFP slots
- Supports full-deplux 802.3x flow control and half-duplux backpressure flow control
- Supports 8K MAC address list, MAC address learning and auto-ageing
- Supports Power Inductive Lightning Protection up to 6KV
- Supports jumbo frame forwarding
- Supports formation of broadcast storm
- Supports QoS and DSCP,Cos(802.1P) priority, each port provides 4 priorities for forwarding queue
- Supports 802.1Q VLAN and maximum groups of QVLAN up to 200
- Supports IGMP snooping function
- Supports 802.1x authentication based on port
- Supports STP, RSTP, IGMP Snooping V1&V2, full-deplux 802.3x flow control and half-duplux backpressure flow control
- Supports spanning tree protocol(STP), including 802.1d(Spanning Tree) and 802.1w(Rapid Spanning Tree) protocol
- Supports Link Aggregation, including static Link Aggregation and LACP, support 6 Trunk groups and 8 aggregate ports per group
- Supports defending from ARP attacks, worm-virus attacks, Dos attacks, MAC-address attacks Support quaternary-smart-binding, searching mainframe for smart binding
- Supports smart configuration for network bar and enterprise.
- Built-in switching power adapter, support AC 110-240V 50/60Hz input
- Standard 19-inch rack-mountable, 1U steel case
- Supports firmware upgrading ways of TFTP in CLI and HTTP in Web
- Supports Telnet, CLI, Web and SNMP, system log, TFTP&HTTP for upgrading firmware"

# Product Features

### Multiple and flexible ports

Provide 24 10/100/1000M auto-negotiation RJ45 ports，2 combo Gigabit SFP slots. All ports have the wire-speed forwarding capability and support IEEE 802.3x full-duplex flow control and half-duplex backpressure flow control. The multiple ports provide great flexibility for users to build networks and allow users to quickly build all kinds of wired networks.

### Multi-service support capability

It Supports Multi-service such as Port VLAN, 802.1Q VLAN, link aggregation, port mirroring, STP/RSTP/MSTP, IGMP Snooping，port speed-limitation, QoS, etc. It helps you to build a high-performance network.
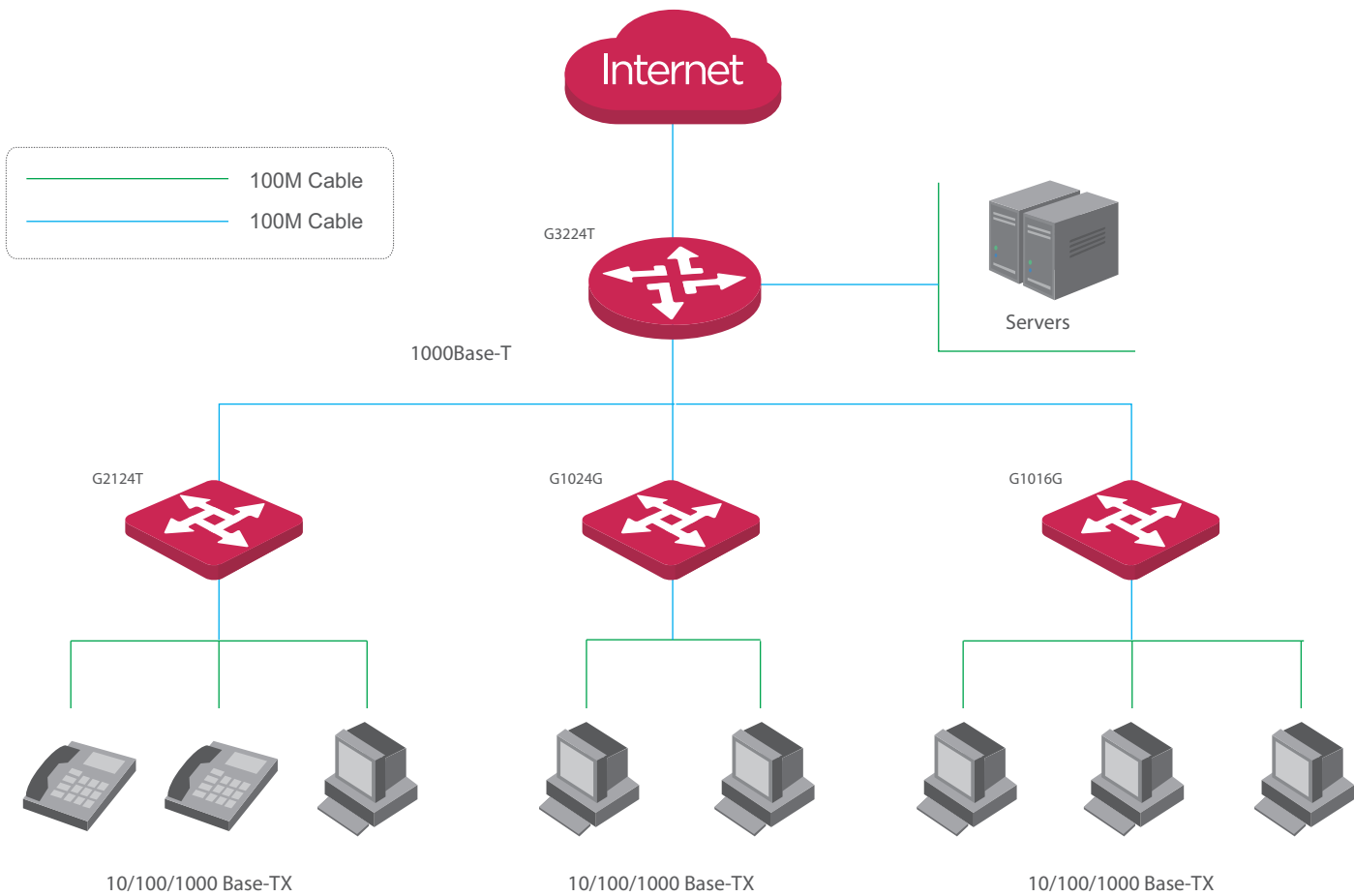
### Quiet and Green Energy Conservation Design

Adopts low-power consumption IC Plus chipset solution. Fanless design enables quiet and energy conservation. When no data transmits in the port, it will automatically change into power-saving state and utmost reduce power consumption and operating costs.

### Easy to use

Plug-and-play. which helps you quickly build Gigabit wired network and greatly simplify the management and maintenance of equipment，It supports desktop and standard 19-inch rack mounted installation with two pairs of rack-mounted hangers, which can be easily installed in a standard 19-inch machine room cabinet.

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# Application Scenarios



100M Cable
100M Cable

Internet

G3224T

1000Base-T

Servers

G2124T

G1024G

G1016G

10/100/1000 Base-TX

10/100/1000 Base-TX

10/100/1000 Base-TX

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| Product Model | G3224T | |
|---|---|---|
| | **Hardware Features** | |
| Standards&Protocols | IEEE 802.3、IEEE 802.3u、IEEE 802.3z、IEEE 802.3ab、IEEE 802.3x、IEEE 802.1D、IEEE 802.1w、IEEE 802.1Q 、IEEE 802.1p | |
| Interface | 24*10/100/1000Mbps RJ45 Ports(Auto Negotiation/Auto MDI/MDIX)<br>2*1000Mbps SFP | |
| Transfer Method | Store-and-Forward | |
| Switching Capacity | 56Gbps | |
| Packet Forwarding Rate | 35.7Mpps | |
| Address Table | 8K | |
| Power Consumption | ＜20W | |
| Power input | 100-240VAC, 50/60Hz | |
| Dimension（L×W×H） | 440mm*284mm*44mm | |
| Fan Quantity | Fanless | |
| Environment | Operating Temperature:: 0℃～40℃<br>Storage Temperature：-40℃～70℃<br>Operating Humidity：10%～90% non-condensing<br>Storage Humidity：5%～90% non-condensing | |
| | **Software Features** | |
| Port Feature | IEEE802.3x flow control (full duplex)<br>Storm control based on port rate percentage<br>PPS based storm control | |
| QoS | Supports Port/Flow- based Rate Limiting<br>Packet re-direction<br>Committed Access Rate (CAR)<br>Supports 8 priority queues<br>Supports Queue scheduling: SP, WRR<br>Supports 802.1p CoS/DSCP priority | |
| Link Aggregation | LACP<br>Up to6 aggregation groups, containing 8 ports per group | |
| Loop back | Supports Spanning Tree STP/RSTP | |
| VLAN | Port based VLAN<br>Protocol based VLAN | |
| Multicast | Supports IGMP V1/V2 | |
| Mirroring | Port mirroring | |
| Security Feature | User level management and password protection<br>802.1X authentication<br>centralized MAC address authentication<br>ARP Detection | |
| Management | Configuration via CLI, Telnet, and Console port<br>SNMPv1/v2/v3<br>Web-based GUI management<br>Support system log<br>Ping, Tracert | |

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## Headquarters