

## **RP-GS8320IX-8GC**

### **16-P SFP(100/1G) + 8-SFP/TP combo + 4-SFP(1G/2.5G/10G) L2+ Managed Switch**



RP-GS8320IX-8GC is a Layer 2+ managed Gigabit switch which supports 16-P SFP (100/1G) + 8-SFP/TP combo + 4-SFP (1G/2.5G/10G), providing high-density performance and Layer 3 static routing with a 128 Gbps switching capacity.

RP-GS8320IX-8GC offers comprehensive end-to-end QoS, as well as flexible and rich management and security settings through SNMP, HTTP, and Telnet interfaces. It supports many L2 switch management functions, such as 802.1Q VLAN, 802.1x Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, and QoS functions. These features meet the high-speed, secure, and smart requirements of enterprise networks at a cost-effective price.

RP-GS8320IX-8GC comes with four 10GbE connectivity options. With a 10GbE uplink, the switch can handle extremely large amounts of data in a secure topology, connecting to an enterprise backbone or high-capacity servers. The powerful network security features also enable RP-GS8320IX-8GC to perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

## **Features**

- Supports IPv4/IPv6 static routing, DHCP server
- Supports GE, 2.5GE, and 10GE port aggregation, static and dynamic aggregation
- Supports access, trunk, hybrid mode, and VLAN classification
- Supports port-based, VLAN-based, and flow-based QinQ
- Supports many-to-one port mirroring
- Supports STP, RSTP, MSTP, G.8032 ERPS protocol
- IGMP snooping supports
- Supports class, remarking, SP and WRR queue scheduling, ingress/egress port-based rate-limiting, and policy-based QoS
- Supports Dot1x, port authentication, MAC authentication, RADIUS service, port security, IP source guard, IP/Port/MAC binding, ARP check, and ARP packet filtering for illegal users and port isolation
- Supports LLDP, user management, login authentication, SNMPV1/V2C/V3, web management, Syslog, RMON alarm, event, and history records, NTP, temperature

monitoring, Ping, Tracert, optical transceiver DDM function, TFTP Client, Telnet Server, and SSH Server

- Firmware update, configuration backup/restore through Web GUI, FTP, and TFTP

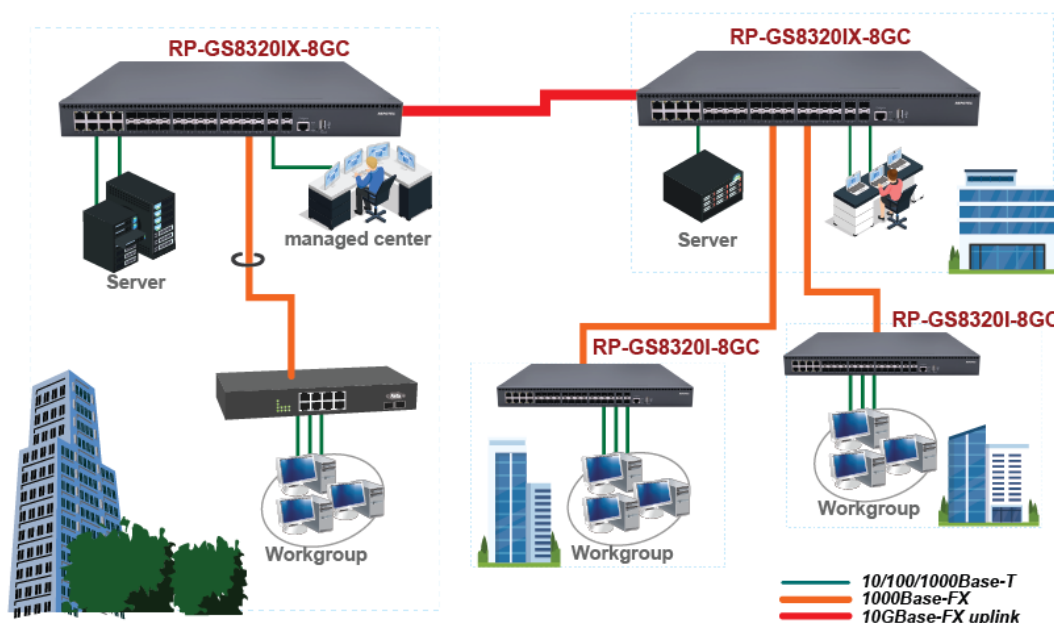
## Specifications

<b>Standards</b>	<ul style="list-style-type: none"><li>● IEEE 802.3/3u 10Base-T, 100Base-TX Ethernet</li><li>● IEEE 802.3ab 1000Base-T Ethernet</li><li>● IEEE 802.3z 1000Base-X Ethernet</li><li>● IEEE 802.3x Flow Control capability</li><li>● IEEE802.3az Energy Efficient Ethernet</li></ul>
<b>Interface</b>	<ul style="list-style-type: none"><li>● 4 x 1G/2.5G/10G SFP ports</li><li>● 16 x 100/1000M SFP ports</li><li>● 8 x 1G SFP/RJ45 COMBO ports</li><li>● 1 x RJ45 console port</li><li>● 1 x USB port for switch basic management and setup</li></ul>
<b>Forwarding Capacity</b>	<ul style="list-style-type: none"><li>● 190.4Mpps</li></ul>
<b>Switching Capacity</b>	<ul style="list-style-type: none"><li>● 128Gbps</li></ul>
<b>Jumbo frames</b>	<ul style="list-style-type: none"><li>● 12M bit</li></ul>
<b>MAC Table</b>	<ul style="list-style-type: none"><li>● 16K MAC addresses</li></ul>
<b>Layer 2 function</b>	
<b>Port aggregation</b>	<ul style="list-style-type: none"><li>● Support GE port, 2.5GE and 10G E port aggregation</li><li>● Support static and dynamic aggregation</li></ul>
<b>Port features</b>	<ul style="list-style-type: none"><li>● Support IEEE802.3x flow control, Port traffic statistics, port isolation</li><li>● Support network storm suppression based on port bandwidth percentage</li></ul>
<b>VLAN</b>	<ul style="list-style-type: none"><li>● Support access, trunk and hybrid mode</li></ul>
<b>VLAN Classification</b>	<ul style="list-style-type: none"><li>● Mac Based VLAN</li><li>● IP Based VLAN</li><li>● Protocol Based VLAN</li></ul>
<b>QinQ</b>	<ul style="list-style-type: none"><li>● Basic QinQ (Port-based QinQ)</li><li>● Flexible Q in Q (VLAN-based QinQ)</li><li>● QinQ (Flow-based QinQ)</li></ul>
<b>Port mirroring</b>	<ul style="list-style-type: none"><li>● Many to one (Port Mirroring)</li></ul>
<b>IGMP Querier</b>	<ul style="list-style-type: none"><li>● IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router</li></ul>
<b>Layer 2 ring network protocol</b>	<ul style="list-style-type: none"><li>● Support STP 、RSTP 、MSTP</li><li>● Support G.8032 ERPS protocol, single ring, sub ring and other ring</li></ul>
<b>DHCP</b>	<ul style="list-style-type: none"><li>● DHCP Client</li></ul>

	<ul style="list-style-type: none"> <li>• DHCP Snooping</li> </ul>
<b>Multicast</b>	<ul style="list-style-type: none"> <li>• IGMP snooping</li> </ul>
<b>ACL</b>	<ul style="list-style-type: none"> <li>• IP Standard ACL</li> <li>• MAC extend ACL</li> <li>• IP extend ACL</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• QoS Class, Remarking</li> <li>• Support SP, WRR queue scheduling</li> <li>• Ingress Port-based Rate-limit</li> <li>• Egress Port-based Rate-limit</li> <li>• Policy-based QoS</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Support Dot1x, port authentication, mac authentication, RADIUS service</li> <li>• Support port-security</li> <li>• Support ip source guard, IP/Port/MAC binding</li> <li>• Support arp-check and ARP packet filtering for illegal users</li> <li>• Support port isolation</li> </ul>
<b>Management and maintenance</b>	<ul style="list-style-type: none"> <li>• Support LLDP</li> <li>• Support user management and login authentication</li> <li>• Support SNMPV1/V2C/V3</li> <li>• Support web management, HTTP1.1, HTTPS</li> <li>• Support Syslog</li> <li>• Support RMON (Remote Monitoring) alarm, event and history record</li> <li>• Support NTP</li> <li>• Support temperature monitoring</li> <li>• Support Ping, Tracert</li> <li>• Support optical transceiver DDM function</li> <li>• Support TFTP Client</li> <li>• Support Telnet Server</li> <li>• Support SSH Server</li> <li>• Support IPv6 Management</li> <li>• Support FTP, TFTP, WEB upgrading</li> </ul>
<b>Layer 3 features</b>	
<b>DHCP server</b>	<ul style="list-style-type: none"> <li>• DHCP server</li> </ul>
<b>ARP</b>	<ul style="list-style-type: none"> <li>• ARP table aging</li> </ul>
<b>IPv4/IPv6</b>	<ul style="list-style-type: none"> <li>• Static routing</li> </ul>
<b>Mechanical structure</b>	
<b>Fan</b>	<ul style="list-style-type: none"> <li>• Support fan speed control</li> </ul>
<b>Power surge protection</b>	<ul style="list-style-type: none"> <li>• 6KV, IEC 61000-4-5 Level X (8/20us)</li> </ul>
<b>Ethernet ports surge protection</b>	<ul style="list-style-type: none"> <li>• 4KV, IEC 61000-4-5 Level 4 (10/700us)</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 40W</li> </ul>

<b>Power Supply</b>	<ul style="list-style-type: none"> <li>Internal Power supply 100~240VAC, 50/60 Hz</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>Operating temperature: 0°C to 50°C</li> <li>Operating Humidity: 10 to 90% (Non-Condensing)</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>440 x 245 x 44mm (WxDxH)</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>CE, FCC</li> </ul>

## Application



## Ordering information

**RP-GS8320IX-8GC** 16-P SFP(100/1G) + 8-SFP/TP combo + 4-SFP(1G/2.5G/10G) L2+ Managed Switch