

## RP-G1002I+

### 8-P 1000T + 2-SFP(100/1G) slot L2+ Managed Switch



RP-G1002I+ is a cost efficient and high-performance L2 Ethernet managed switch, it is equipped with 8 gigabit RJ45 ports and 2 SFP slots. RP-G1002I+ supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. RP-G1002I+ supports lots of L2 switch management functions, e.g. 802.1Q VLAN, 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions ... etc. Auto-MDIX function is supported for every TX port of the switch for easy cable connection.

## Feature

- CISCO-like command line interface
- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN and Private VLAN
- Protected port and LoopBack Detection function
- Q-in-Q(double tagging) function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering /group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control
- Ingress/Egress rate control on port
- Broadcast/Multicast/Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function(Phase 2) / Dual Speed SFP Ports(100/1000Mbps)
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- IEEE 802.3az power management / FANless / Green Ethernet

## Specification

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE802.3(10BaseT Ethernet ), IEEE802.3u(100Base Fast Ethernet),</li> <li>• IEEE802.3ab(1000BaseT), IEEE802.3z(1000Base),IEEE802.3x</li> <li>• IEEE802.1D, IEEE802.1w, IEEE802.1P, IEEE802.1Q, IEEE802.1x</li> <li>• IEEE802.3ad, IEEE802.1ad</li> <li>• IEEE802.3az Energy Efficient Ethernet</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 8* RJ45 ports, with 10/100/1000Mbps, Full/Half duplex auto-negotiation and Auto-MDIX and Force MDI/MDIX function</li> <li>• 2* 100/1G SFP Slot, Port 9 and Port 10</li> </ul>
<b>Console Port</b>	<ul style="list-style-type: none"> <li>• DB9 console port</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>• 416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• Flash: SPI 16MB / RAM: DDRII 128MB</li> </ul>
<b>Packet Buffer</b>	<ul style="list-style-type: none"> <li>• 512K Bytes</li> </ul>
<b>Mac Table Size</b>	<ul style="list-style-type: none"> <li>• 8K</li> </ul>
<b>Max Packet Size</b>	<ul style="list-style-type: none"> <li>• 9600 Bytes</li> </ul>
<b>Switching capability</b>	<ul style="list-style-type: none"> <li>• 14880pps at 10Mbps</li> <li>• 148810pps at 100Mbps</li> <li>• 1488095pps at 1Gbps with 64 bytes packets</li> </ul>
<b>Switch capacity</b>	<ul style="list-style-type: none"> <li>• 20Gbps</li> </ul>
<b>Forwarding Rate</b>	<ul style="list-style-type: none"> <li>• 14.8Mpps</li> </ul>
<b>Port Control</b>	<ul style="list-style-type: none"> <li>• Port speed, duplex mode, and flow control</li> <li>• Port frame size (jumbo frames), Maximum ingress frame size (9600 bytes)</li> <li>• Port state (administrative status)</li> <li>• Port status (link monitoring)</li> <li>• Port statistics (MIB counters)</li> <li>• Port VeriPHY (cable diagnostics)</li> <li>• Power Control</li> </ul>
<b>L2 Switching</b>	<ul style="list-style-type: none"> <li>• Auto MAC address learning/aging and MAC addresses (static)</li> <li>• IEEE 802.1Q static VLAN, Private VLAN, Port isolation, Port Based VLAN</li> <li>• IEEE 802.1ad Provider Bridge</li> <li>• IEEE 802.1D STP/802.1w RSTP/802.1s MSTP</li> <li>• IEEE 802.3ad Link Aggregation, static and LACP</li> <li>• BPDU guard and restricted role, BPDU transparency</li> <li>• DHCP client, DHCP snooping, DHCP option 82 relay</li> <li>• ARP inspection</li> <li>• Port mirroring</li> <li>• IP MAC binding</li> </ul>
<b>Layer 2 Multicast</b>	<ul style="list-style-type: none"> <li>• IGMPv2, v3 snooping, (1024 groups)</li> <li>• IGMP throttling, filtering, and leave proxy</li> <li>• MVR</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• 8 Priority Queues per Port</li> <li>• Port Based priority</li> <li>• Scheduler priority</li> <li>• QoS Control List</li> </ul>

	<ul style="list-style-type: none"> <li>• Storm control for UC, MC, and BC</li> <li>• Policing and shaping per port and per queue</li> <li>• Ingress Policing:(100-1000000 when the "Unit" is "kbps" or "fps" and 1-3300 when the "Unit" is "Mbps" or "kfps")</li> <li>• Egress Shaping:(100-1000000 when the "Unit" is "kbps", and 1-3300 when the "Unit" is "Mbps".)</li> <li>• DiffServ (RF 2474) remarking</li> <li>• Tag remarking</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Port-based 802.1X, Single 802.1X, Multiple 802.1X</li> <li>• MAC-based authentication, VLAN assignment, QoS assignment</li> <li>• Guest VLAN</li> <li>• RADIUS accounting</li> <li>• MAC address limit</li> <li>• TACACS+</li> <li>• Web and CLI authentication and authorization</li> <li>• Authorization ( 15 levels)</li> <li>• ACLs for filtering(256 entries), policing, and port copy</li> <li>• IP source guard</li> </ul>
<b>Synchronization</b>	<ul style="list-style-type: none"> <li>• NTPv4 Client</li> </ul>
<b>Power Saving</b>	<ul style="list-style-type: none"> <li>• ActiPHY, PerfectReach</li> <li>• Ethernet Energy Efficient power management(EEE)</li> </ul>
<b>SFP DDMI</b>	<ul style="list-style-type: none"> <li>• Yes (Phase 2)</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• HTTP server</li> <li>• CLI console port</li> <li>• Telnet</li> <li>• Management access filtering</li> <li>• SSHv2 and HTTPS</li> <li>• IPv6 Management</li> <li>• System Syslog</li> <li>• Software download through Web</li> <li>• SNMPv1/v2c/v3 Agent</li> <li>• RMON Group 1, 2, 3, and 9</li> <li>• IEEE 802.1AB-2005 Link Layer Discovery, LLDP</li> <li>• Text Configuration download or upload</li> <li>• sFlow</li> </ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"> <li>• Power (Green)</li> <li>• System(Green)</li> <li>• Link / Act: 1000Mbps (Green); 10/100Mbps (Amber)</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 8.5 Watt Max.</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>• 250 * 117 * 37 mm</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>• FCC, CE</li> </ul>

## Ordering information

**RP-G1002I+** 8-P 1000T + 2-SFP(100/1G) slot L2+ Managed Switch

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