RP-GS2024I

20-P SFP(100/1G) + 4-TP/SFP combo L2+ Managed Switch

RP-GS2024I is a cost efficient and high-performance L2+ Ethernet management switch - 20-port (100/1G) SFP+ 4-Port SFP/RJ45 combo are supported. This switch supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. RP-GS2024I supports lots of L2 switch management functions, e.g. 802.1Q VLAN, 802.1x Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, ... etc.

Feature

- 20 * SFP ports, support 100Base FX or 1000Base-X
- 4* RJ45/SFP(100/1G) ports, auto-detect RJ45/SFP connection
- IPv6 management
- IPv4 Static routing
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Protected Port and LoopBack Detection 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
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload

Specification

Standards	• IEEE802.3(10BaseT Ethernet), IEEE802.3u(100Base Fast Ethernet), • IEEE802.3ab(1000BaseT), IEEE802.3z(1000Base),IEEE802.3x • IEEE802.1D, IEEE802.1w, IEEE802.1P, IEEE802.1Q, IEEE802.1x • IEEE802.3ad, EEE802.1ad
Interface	• Port1-24: 100/1G SFP Port • Port20-24: UTP Combo Port
Console Port	• DB9 console port
CPU	• 416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller
Memory	• Flash : SPI 16M Bytes , RAM:DDRII 128M Bytes
Packet Buffer	• 512K Bytes
Mac Table Size	• 16K
Max Packet Size	• 9600 Bytes
Switching capability	• 14880pps at 10Mbps • 148810pps at 100Mbps • 1488095pps at 1Gbps with 64 bytes packets
Switch capacity	• 48Gbps
Forwarding Rate	• 35.7Mpps
Port Control	• Port speed, duplex mode, and flow control • Port Auto MDI/MDI-X • Port frame size (jumbo frames), Maximum ingress frame size (10056 bytes) • Port state (administrative status) • Port status (link monitoring) • Port statistics (MIB counters)
L2 Switching	• Auto MAC address learning/aging and MAC addresses (static) • DHCP snooping • ARP inspection • Port Mirroring • Flow mirroring
L3 Switching	• DHCP option 82 relay • UPNP • IPv4 Unicast: Static routing
VLANs	• IEEE 802.1Q static VLAN(4096 entries Max.), Voice VLAN, • Port isolation, Private VLAN Static, MAC based VLAN, • Protocol based VLAN, IP subnet based VLAN
Spanning Tree	• IEEE 802.1s MSTP(Multiple spanning tree) • IEEE 802.1w RSTP(Rapid spanning tree) • IEEE 802.1D STP(Spanning tree) • BPDU Guard & Restricted Role • Error Disable Recovery
Link Aggregation	• Static and LACP
IP Multicast	• IGMP v2 and v3 snooping • MLD v1 snooping • IGMP filtering profile • IPMC throttling, filtering, leave proxy • MVR and MVR profile
QoS	• Traffic Classes (8 active priorities) • Port Default Priority, User Priority, • Input priority mapping

	- QoS Control List (QCL Mode) - Storm Control for UC, BC and Unknown - Port policers - Global/VCAP (ACL) policers - Port egress shaper - Queue egress shapers - DiffServ (RFC2474) remarking - Tag remarking - Scheduler mode
Security	- Port-Based 802.1X, Single 802.1X, Multiple 802.1X, - MAC-Based Authentication - VLAN Assignment , QoS Assignment, Guest VLAN - RADIUS Accounting - MAC Address Limit - IP MAC binding, IP/MAC binding dynamic to static - TACACS+ - Web & CLI Authentication - Authorization (15 user levels) - ACLs for filtering/policing/port copy - IP source guard
Synchronization	- NTPv4 Client
SFP DDMI	- Support
Management	- DHCP Client, - DNS client, proxy - HTTP Server - CLI - Console Port & Telnet - Text Configuration download or upload - Management access filtering - HTTPS - SSHv2 - IPv6 Management - System Syslog - Software Upload via web - SNMP v1 / v2c / v3 Agent - RMON (Group 1, 2, 3 & 9) - RMON alarm and event(CLI,web) - SNMP multiple trap destinations - IEEE 802.1AB-2005 Link Layer Discovery LLDP - Cisco Discovery filtering - CDP - sFlow - Daylight Saving
LED Indicators	- Per Port : Link/Act (Green: Gigabit, Amber:10/100M) - Per Device : Power and System
Power Supply	- Internal Power supply 100~240VAC, 50/60 Hz - Optional 48VDC power module
Environment	- Operating temperature: 0°C to 50°C - Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	- 440 * 172 * 44 mm
Certification	- FCC, CE

Ordering information

RP-GS2024I   20-P SFP(100/1G) + 4-SFP/TP combo L2+ Managed Switch

RP-GS2024I/D   20-P SFP(100/1G) + 4-SFP/TP combo L2+ Managed Switch
W/ DC Power Input Module

Optional:

MOD-GS48DC   48VDC power module for RP-GS2024I