RP-IPG206-2GF

4-P Gigabit PoE + 2-TP/SFP(100/1G) combo Industrial Managed Switch

RP-IPG206-2GF is an industrial managed PoE Gigabit Ethernet switch, it provides up to 30 watts of power per port, allowing for efficient power distribution. It has a total PoE power budget of 120W.
RP-IPG206-2GF equips with a proprietary redundant network protocol. The protocol enables users to establish an additional Ethernet network with an ultra-high-speed recovery time of less than 20ms.

RP-IPG206-2GF offers powerful Layer 2 (L2) and basic Layer 3 (L3) features with improved functionality and usability. It supports remote management through SNMP and provides management functions such as 802.1Q VLAN, 802.1x access control, IGMP v1/v2/v3, proxy and snooping, and QoS functions.

RP-IPG206-2GF equips the embedded Device Managed System (DMS). This feature simplifies configuration, installation, and troubleshooting in applications such as video surveillance and wireless access. The switch is user-friendly and helps reduce overall costs, making it an ideal choice for management purposes.

Features

- IEEE 802.3af 15.4W / IEEE 802.3at 30W High Power PoE, total PoE power budget: 120W
- IPv4/IPv6 L3 static route Network redundant LACP, Spanning tree STP, RSTP & MSTP, and rapid Ring support network redundancy recovery<20ms
- Port-based /tag-based VLAN, IEEE 802.1ad/ QinQ VLAN, Add/remove VLAN tags,
- Multicasting support IGMP v1/v2/v3 snooping, Proxy & Querier
- Multicast/Broadcast/Flooding Storm Control
- IEEE802.1x access control
- Per VLAN mirroring
- CLI/Web/SNMP management interfaces
- iPush APP for real time alarm notification
- DHCP Server
- PoE PSE power management & PD power consumption
- Dual power input & Reverse power protection
- IEEE 802.3az Energy Efficient Ethernet standard for green Ethernet application

Specifications

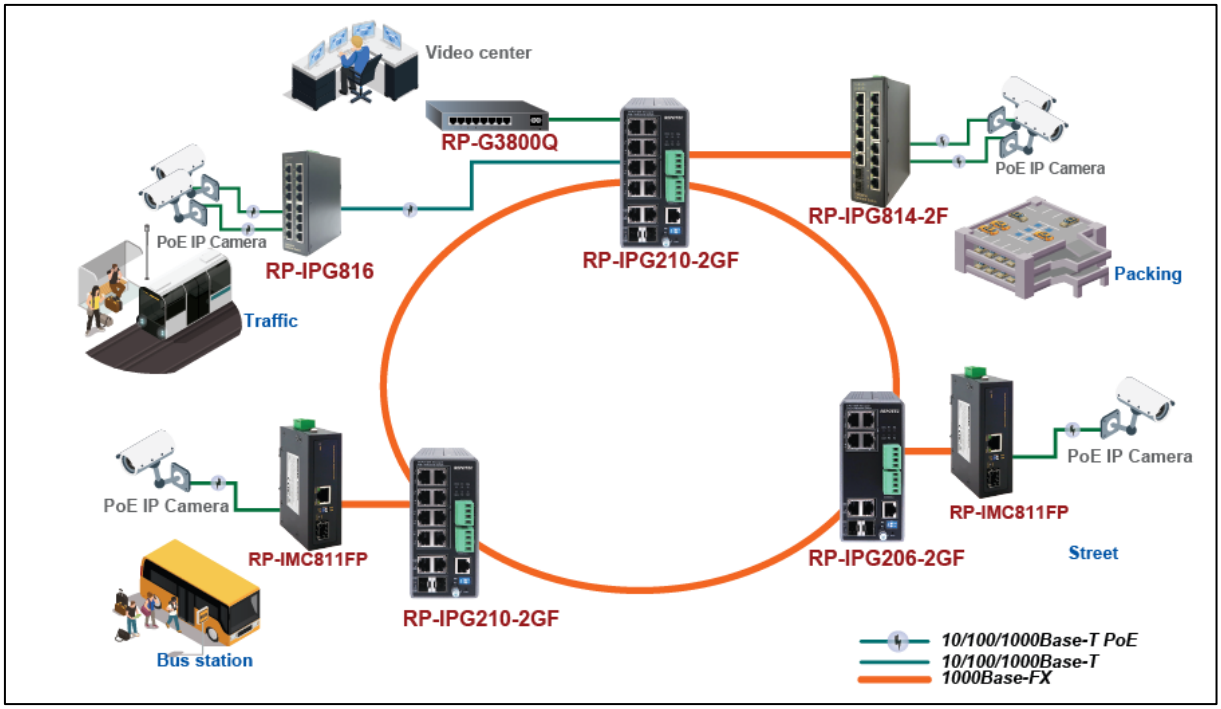
Standards	• IEEE 802.3/3u 10Base-T, 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE 802.3x Flow Control capability • IEEE802.3at/af PoE standard • IEEE802.3az Energy Efficient Ethernet
Interface	• Port 1 to 4: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X • Port 5 to 6: RJ45/SFP(100/1000Mbps) combo • RJ-45 Console port • Reset button
Forwarding Capacity	• 8.928 Mpps
Switching Capacity	• 12Gbps
Jumbo frames	• 9216Bytes
MAC Table	• 8K MAC addresses
Ring Management	
Rapid Ring	• Enable self-recover time in less than 20ms • DIP switch Ring setting
Layer 2 Switching	
Spanning Tree Protocol (STP)	• Standard Spanning Tree 802.1d • Rapid Spanning Tree (RSTP) 802.1w • Multiple Spanning Tree (MSTP) 802.1s
VLAN	• Port-based VLAN • 802.1Q tag-based VLAN • MAC-based VLAN • Management VLAN • Private VLAN Edge (PVE) • Q-in-Q (double tag) VLAN • Voice VLAN • GARP VLAN Registration Protocol (GVRP)
Trunking	• Link Aggregation Control Protocol (LACP) IEEE 802.3ad • Up to 3 groups and up to 4 ports per group
DHCP Relay	• Relay of DHCP traffic to DHCP server in different VLAN. • Works with DHCP Option 82
IGMP v1/v2/v3 snooping	• IGMP limits bandwidth-intensive multicast traffic to only the requesters • Supports 1024 multicast groups
IGMP Querier	• IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
IGMP Proxy	• IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
MLD v1/v2 snooping	• Deliver IPv6 multicast packets only to the required receivers
Multicast VLAN Registration (MVR)	• It uses a dedicated manually configured VLAN, called the multicast VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping
Layer 3 Switching	
IPv4 Static Routing	• IPv4 Unicast: Static routing
IPv6 Static Routing	• IPv6 Unicast: Static routing

Security	
Secure Shell (SSH)	• SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	• SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
IEEE 802.1X	• IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions • Supports IGMP-RADIUS based 802.1X • Dynamic VLAN assignment
Layer 2 Isolation Private VLAN Edge	• PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
Port Security	• Locks MAC addresses to ports, and limits the number of learned MAC address
IP Source Guard	• Prevents illegal IP address from accessing to specific port in the switch
RADIUS/ TACACS+	• Supports RADIUS and TACACS+ authentication. Switch as a client
Storm Control	• Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	• A feature acts as a firewall between untrusted hosts and trusted DHCP servers
ACLs	• Supports up to 256 entries. Drop or rate limitation based on: • Source and destination MAC, VLAN ID or IP address, protocol, port, • Differentiated services code point (DSCP) / IP precedence • TCP/ UDP source and destination ports • 802.1p priority • Ethernet type • Internet Control Message Protocol (ICMP) packets • TCP flag
Loop Protection	• To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
Quality of Service	
Hardware Queue	• Supports 8 hardware queues
Scheduling	• Strict priority and weighted round-robin (WRR) • Queue assignment based on DSCP and class of service
Classification	• Port based • 802.1p VLAN priority based • IPv4/IPv6 precedence / DSCP based • Differentiated Services (DiffServ) • Classification and re-marking ACLs
Rate Limiting	• Ingress policer • Egress shaping and rate control • Per port
Management	
HW Monitoring	• Temperature Detection and Alarm
HW Watchdog	• Supported to resume operation from CPU hang up
iPush	• The real time alarm notification could lower technical support cost • Works with iOS and Android devices to make quick work of even the most demanding tasks.
DHCP Server	• Support DHCP server to assign IP to DHCP clients

Remote Monitoring (RMON)	• Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
Port Mirroring	• Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
UPnP	• The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
s-Flow	• The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
IEEE 802.1ab (LLDP)	• Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network • Support LLDP-MED extensions
Web GUI Interface	• Built-in switch configuration utility for browser-based device configuration
CLI	• For users to configure/manage switches in command line modes
Dual Image	• Independent primary and secondary images for backup while upgrading
SNMP	• SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
Firmware Upgrade	• Web browser upgrade (HTTP/ HTTPs) and TFTP • Upgrade through console port as well
NTP	• Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	• HTTP/HTTPs; SSH • DHCP Client/ DHCPv6 Client • Cable Diagnostics • Ping • Syslog • IPv6 Management
Power over Ethernet (PoE)	
Port Configuration	• Supports per port PoE configuration function
PoE Scheduling	• Supports per port PoE scheduling to turn on/off the PoE devices (PDs)
Auto-checking	• Check the link status of PDs. Reboot PDs if there is no responses
Power Delay	• The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs
PoE Power Budget	• 120 Watts
Power Supply	• 54 VDC dual inputs • DC Operating Range 48 to 56 VDC • Required >48 VDC for PoE 802.3af (Max. 15.4W) output • Required >54 VDC for PoE+ 802.3at (Max. 30W) output
Environment	• Operating temperature: -40°C to 75°C • Storage Temperature: -40 to 85°C • Operating Humidity: 5% to 95% (Non-Condensing)
Dimension	• 62x 135x 130mm (WxHxD)
EMS	• EN61000-4-2 ESD, EN61000-4-3 RS, EN61000-4-4 EFT, EN61000-4-5 (for RJ45 Port, Surge 6KV), EN61000-4-6 CS, EN61000-4-8 PFMF,

	(EN61000-6-2 by request)
EMI	• FCC Part 15 Class A • (EN61000-3-2, EN61000-3-3, EN61000-6-4, EN55022, EN55011 by request)
Safety	• CE, (EN60950 by request)
Stability Testing	• EN 60068-2-6 (Vibration), EN 60068-2-27(Shock), EN 60068-2-32(Free Fall)

Application



Ordering information

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