The Advanced Networking Technology

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RP-IPG210-2GF

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

RP-IPG210-2GF is a Managed Gigabit Ethernet switch, providing 8 10/100/1000BaseT PoE PSE ports and 2 TP/ SFP ports. The PoE device helps realize a centralized power supply solution, and it provides up to 30 watts of power per port. with a total PoE power budget of 240W .It meets the high reliability



requirements demanded by industrial applications, such as factory assembly line, automation, transportation and heavy Industrial factory.

To create reliability in your network, RP-IPG210-2GF equips with a proprietary redundant network protocol, which provides users with an easy way to establish an extra Ethernet network with ultra high-speed recovery time less than 20ms. RP-IPG210-2GF supports many advanced network standards to optimize network performance, ease maintenance issues, and secure network safety. RP-IPG210-2GF offers powerful L2 and basic L3 features with better functions and usability. RP-IPG210-2GF features remote management by SNMP, and supports management functions, e.g. 802.1Q VLAN, 802.1x access control, IGMP v1/v2/v3, proxy & snooping , QoS functions ... etc. Auto-MDIX function is supported for every TX port of the switch for easy cable connection.

The embedded Device Managed System (DMS) feature benefits users easy-to-configure/ install/ troubleshoot in the video surveillance, wireless access, and other industrial applications. RP-IPG210-2GF is an ideal option for deliver management, not only user friendly, but also decrease the total cost.

Features

- IEEE 802.3af 15.4W / IEEE 802.3at 30W High Power PoE, total PoE power budget: 240W
- 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, prox, & 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 8: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X
	 Port 9 to 10: RJ45/SFP(100/1000Mbps) combo
	RJ-45 Console port
	Reset button
Forwarding Capacity	• 14.88 Mpps
Switching Capacity	• 20Gbps
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	 Standard Spanning Tree 802.1d
(STP)	 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 5 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	It uses a dedicated manually configured VLAN, called the multicast
Registration (MVR)	VLAN, to forward multicast traffic over Layer 2 network in conjunction
	with IGMP snooping
Layer 3 Switching	
IPv/ Static Pouting	
	IPv4 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 encrypts the http traffic, allowing advanced secure access to the
(SSL)	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	 PVE (also known as protected ports) provides L2 isolation between
VLAN Edge	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
	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
ACLs	ICP/ UDP source and destination ports
	• 802.1p priority
	Ethernet type
	Internet Control Message Protocol (ICMP) packets
Loop Protection	 To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations
Quality of Samiaa	
	 Supporte 8 bordwore queues
	Supports o flandware queues Strict priority and weighted round robin (W/PP)
Scheduling	 Strict priority and weighted round-robin (WKK) Oueue assignment based on DSCP and class of service
Classification	Quede assignment based on DOCI and class of service
Classification	 802 1n VI AN 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 hand up
	The real time alarm notification could lower technical support cost
iPush	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	• Embedded RMON agent supports RMON groups 1,2,3,9 (history,
(RMON)	statistics, alarms, and events) for enhanced traffic management,
	Traffic on a part can be reimaned to another part for another suith a
Dout Minnoving	 I ratiic on a port can be mirrored to another port for analysis with a network analyzer or PMON probable to N 1 (N is Switch's Ports) ports
Port Mirroring	can be mirrored to single destination port. A single session is supported
	The Universal Plug and Play Forum, an industry group of companies
HPnP	• The Oniversal Flug and Flag Forum, an industry group of companies
	Universal Plug and Play
	The industry standard for monitoring high speed switched networks. It
	gives complete visibility into the use of networks enabling performance
s-Flow	optimization, accounting/billing for usage, and defense against security
	threats
	• Used by network devices for advertising their identities, capabilities, and
IEEE 802.1ab (LLDP)	neighbors on an IEEE 802ab local area network
· · ·	Support LLDP-MED extensions
Web CIII Interfece	Built-in switch configuration utility for browser-based device
web GUI internace	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
	DHCP Client/ DHCPv6 Client
	Cable Diagnostics
Other Management	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	• 240 Watts
Power Supply	• 54 VDC dual inputs
	DC Operating Range 48 to 56 VDC Degrating A 40 VDC for DeF 002 2 of (Max 45 4)(4) output
	 Required >48 VDC for PoE 802.3ar (Max. 15.4VV) output Required >54 VDC for PoE 4 802.3at (Max. 2014) output
Environmont	Operating temporature: 40°C to 75°C
	 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 R 1/5 Port Surge 6K)() EN61000-4-6 CS EN61000-4-8 PEME

	(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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