RUBYTECH®

Gigabit Ethernet L2 Plus Managed Switch



GS-2310G: 8-Port 10/100/1000Base-T + 2 TP / (100/1G) SFP Combo L2 Plus Managed Switch

Key Features

- L2+ features provide better manageability, security, QoS, and performance
- Dual speed SFPs for FE or GbE fiber uplink
- 802.3az Energy Efficient Ethernet standard
- IPv6 and s-Flow supports
- Easy-Port-Configuration for ease of setup in the IP Phone, IP Camera or Wireless environment.

Overview

The GS-2310G, the next generation L2+ managed switch, from Rubytech, provides a reliable infrastructure for your business network. This switch delivers more intelligent features you need to improve the availability of your critical business applications, protects your sensitive information, and optimizes your network bandwidth to deliver information and applications more effectively. It provides the ideal combination of affordability and capabilities for entry level networking of small business or enterprise which demands IP Phone, IP Camera or Wireless applications, thus helps you create a more efficient, better-connected workforce.

Applications

Whether you want to create a high-performance network to connect all clients' computers or an application to deliver data, voice, and video services, the GS-2310G provides a solution to fit your requirements. Possible implement scenarios include:

- Secure and High Performance PC or laptop connectivity: The GS-2310G switch can easily and securely connect clients' PC or laptop in offices with each other and with all of the servers, printers, and other networking devices they use. High performance and reliable connectivity will help to speed file transfers and data processing, improves network performance and security, and keeps the clients connected and productive.
- Secure and Quality wireless connectivity:

The GS-2310G switch connected with WiFiAPs allow WiFi clients to work from conference rooms and public areas, collaborate in any place, and access networking from wherever they are. Gigabit Ethernet connectivity provides these clients have the suitable bandwidth and quality performance they need to make mobility connected. Through embedded security, the clients can work with confidence and authorized users can access networking and network devices.

• Unified communications with open standards:

Tobe a managed network solution, it provides the high performance and advanced networking quality to deliver all networking communications and data (such as IP telephony, IP surveillance, and Video Streaming) over a single network.

Advanced network security:

The GS-2310G switch provides enhanced and advanced network security to guests in public or private area, such as a hotel, an office lobby, or any area open to guests. Using powerful but simple to install security and traffic separating abilities, through guest VLAN or guest access control technology, it will help you to isolate vital networking traffic from guest services and keep guests' network sessions private from each other.

Benefits

The GS-2310G provides security, performance, quality of services, central managed and other network control capabilities. Optimized and customized design and affordable pricing, it best fit for SMB or entry-level enterprise solution. It provides:

• Excellent performance and reliability:

The GS-2310G passed the rigorously testing to deliver excellent performance. As a managed switching solution, it also provide the flexibility to manage and prioritize suitable-bandwidth traffic such as voice.

• Easy, simple deployment and configuration:

The device manager software provides an intuitive, web-based interface to simplify deployment, advanced security (ACLs, IP Source guard, VLAN...etc), and quality of service (QoS) traffic prioritization. It



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also provides a standard protocol that works through a simple network managed system software (RubyView) to discover RubyTech's devices in the network and display basic information. This switch uses IEEE802.1AB LLDP to automatically discover all the devices (those support LLDP) connected to the network. For more advanced capabilities and Easy-to-use graphical tools, such as ECP (Easy-Port-Configuration), provides preset options for easily configuring each port of the switch, it will make setup easy when operating with IP phones, IP cameras or Wifi APs. The tree CLI architecture will greatly save your time on the network deployment, management and troubleshooting.

- Strong security: The switch provides an advanced security and gives you tight control to safeguard the network from unauthorized users. Advanced security features include:
- ----Secure remote management by supporting SSH, SSL and SNMPv3 connection which encrypt the packet content at each session.
- ---Extensive access control lists (ACLs) to restrict sensitive portions of the network from unauthorized users or guests.
- ---Guest virtual LANs (VLANs) provide Internet connectivity to guests while isolating critical traffic from guest traffic.
- --- IP Source Guard to prevent datagrams with spoofed addresses from being in the network.
- ---IEEE802.1X port security to tightly limit access to specific segments of network.

Voice support:

The switch can be easily configured with the specific VLAN and QoS parameters to prioritize voice traffic whereas ensure consistent network performance for all services.

- Advanced network management capabilities: As a managed switch, it helps you to use a variety of advanced managing features to manage traffic over your network. Features include:
- ---Support IPv6: As the IP network addressing scheme evolves to accommodate more devices, GS-2310G supports IPv6, the newest version of the Internet Protocol, as well as the previous IPv4 standard. As the result, you have the ability to move up to the next generation of networking applications without an extensive equipment upgrade.
- ----Remote management: Using Simple Network Management Protocol (SNMP) and IEEE802.1AB LLDP, you can configure and manage GS-2310G and other Rubytech switches in the network remotely, instead of having to directly connect to them.
- Energy efficiency: GS-2310G is designed to comply with IEEE802.3az, energy efficient Ethernet protocol, reducing energy costs without compromising performance. Power-saving features include:
- ---The latest application-specific integrated circuits (ASICs), using low-power technology, allow for lower power consumption and thinner, more efficient designs.
- ---Embedded intelligence to adjust signal strength based on cable length.

• Expansion ports:

Featuring 8 Gigabit UTP ports, the GS-2310G also offers two Combo UTP/SFP ports for uplinks to Fast Ethernet or Gigabit Ethernet fiber optic networks.

Product Specifications

Feature	Description								
Performance									
Switching capacity		Capacity in Millions of	Switching Capacity in Gigabits						
and forwarding rate	Model Name	Packets per Second (mpps)	per Second (Gbps)						
		(64-byte packets)							
	GS-2310G	14.88	20						
Layer 2 Switching									
Spanning Tree	Standard Spanning Tree 802.1d								
Protocol (STP)	Rapid Spanning Tree (RSTP)802.1w								
	Multiple Spanning Tree (MSTP)802.1s								
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad								
	• Up to 5 groups								
	Up to 10 ports per group								
VLAN	Support for up to 4K VLANs simultaneously (out of 4096 VLAN IDs)								
	Port-based VLAN								
	• 802.1Q tag-based VLAN								
	MAC-based VLAN								
	Management VLAN								
	Private VLAN Edge (PVE)								
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with								
	appropriate levels of QoS								
Generic VLAN	Protocols for aut	omatically propagating and configu	Iring VLANs in a bridged domain						
Registration(GVRP)									



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Feature	Description			
DHCP Relay	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82			
(Layer 2)				
IGMP v1/v2/v3	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024			
snooping	multicast groups (source-specific multicasting is also supported)			
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	Support IGMP Proxy Politics IDu6 multi-sector solute to the required receivers			
MLD v1/v2	Deliver IPv6 multicast packets only to the required receivers			
snooping				
Security				
Secure Shell (SSH)	SSH secures Telnettraffic in or out the switch, SSH v1 and v2 are supported			
Protocol				
Secure Sockets	SSL encrypts the http traffic, allowing advance secure access to the browser-based			
Layer (SSL)	management GUI in the switch			
IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest			
	VLAN, single/multiplehost mode and single/multiple sessions			
	Supports IGMP-RADIUS based 802.1X			
	Dynamic VLAN assignment			
Layer 2 isolation	PVE (also knows as protected ports) provides L2 isolation between clients in the			
Private VLAN Edge	same VLAN, Supports multiple uplinks			
(PVE)				
Port Security	Locks MACAddresses to ports, and limits the number of learned MAC addresses			
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			
ACLs	Supports up to 256 entries			
AULS	Drop or rate limitation based on source and destination MAC, VLAN ID or IP address,			
	protocol, port, differentiated services codepoint (DSCP) / IP precedence, TCP/ UDP			
	source and destination ports, 802.1p priority, Ethernet type, Internet Control Message			
Overlite of Complete	Protocol (ICMP) packets, IGMP packets, TCP flag			
Quality of Service Hardware Priority	Support 8 hardware queues			
•	Support o hardware queues			
Queue	Christeric in a duraighted ground as his (WDD)			
Scheduling	Strict priority and weighted round-robin (WRR)			
	Queue assignment based on DSCP and class of service (802.1p/ CoS)			
Classification	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) /			
Classification	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs,			
	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS			
Rate Limiting	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS Ingress policer; egress shaping and rate control; per VLAN, per port and flow based			
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Rate Limiting IPv6 applications	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS Ingress policer; egress shaping and rate control; per VLAN, per port and flow based			
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Rate Limiting IPv6 applications Management Web GUI interface Dual Image SNMP Remote Monitoring (RMON)	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS Ingress policer; egress shaping and rate control; per VLAN, per port and flow based Web/ SSL, Telnet/ SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, Syslog Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring Dual image provides independent primary and secondary OS files for backup while upgrading SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM) Embedded RMON software agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis			
Rate Limiting IPv6 applications Management Web GUI interface Dual Image SNMP Remote Monitoring (RMON) IPv4 and IPv6 dual	Port based; 802.1pVLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS Ingress policer; egress shaping and rate control; per VLAN, per port and flow based Web/ SSL, Telnet/ SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, Syslog Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring Dual image provides independent primary and secondary OS files for backup while upgrading SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM) Embedded RMON software agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis			
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Feature			Descr	iption		
Easy- Port-	Easily to cont	figure of clients	QoSand Sec	urity capabilities.		
Configuration						
Other management	Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client/ DHCPv6 Client;					
-	SNTP; cable diagnostics; ping; syslog; Telnet client(SSH secure support)					
s-Flow	The industry standard technology for monitoring high speed switched networks. It give					orks. It give
	complete visi	bility into the us	e ofnetworks	enabling performar	nce optimizati	on,
	accounting/bi	lling for usage,	and defense a	igainst security thre	eats	
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					
Green Ethernet						
Link detection	Compliant with IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns					
	off power on C	Gigabit Etherne	tRJ-45 port w	hen detecting link d	own or idle of	client.
	Active mode is	s resumed with	outloss of any	packets when thes	witch detects	s the link up
Cable length	Adjusts the sig	gnalstrength ba	ased on the ca	ble length.Reduces	s the powerco	onsumption
detection	for cables sho	orter.				
General						
Jumbo frames	Frame sizes	up to 9KB suppo	orted on Gigab	it interfaces		
MAC Table	Up to 8KMAC	Caddresses.				
Discovery						
Link Layer	Used by network devices for advertising their identities, capabilities, and neighbors on a					
Discovery Protocol	IEEE 802 loc	alarea network	, principally wi	red Ethernet		
(LLDP)						
(IEEE802.1AB)						
with LLDP-MED						
extensions						
Interface			•			
Ports	Model Name	Total System	RJ-45Ports	UTP/SFP	SFP	Option
		Ports		(100/1G)Combo	(100/1G)	
		1 0113		<i>/</i>	(100/10)	Module
	GS-2310G	10	8 GbE	2		Module
Environmental (pre			8 GbE			Module
Environmental (pre Dimensions	liminary) 280(W) x 44(Module
	liminary) 280(W) x 44(1.42Kg	10 H) x 166(D) mr	n	2		Module
Dimensions Weight Power	liminary) 280(W) x 44(1.42Kg	10	n	2		Module
Dimensions Weight Power Certification	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC	10 H) x 166(D) mr	n ernal, universa	2		Module
Dimensions Weight Power Certification Operating	liminary) 280(W) x 44(1.42Kg 100-240 VAC	10 H) x 166(D) mr 50~60 Hz, inte	n ernal, universa	2		Module
Dimensions Weight Power Certification	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal, universa	2		Module
Dimensions Weight Power Certification Operating	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal, universa	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal, universa	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal , universa 47)Class A	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal , universa 47)Class A	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal , universa 47)Class A	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90%	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal , universa 47)Class A	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90%	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR	n ernal , universa 47)Class A	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option • Console Cable	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% n)	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonce	n ernal , universa 47)Class A ondensing	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% n)	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonce	n ernal , universa 47)Class A ondensing	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option • Console Cable	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% n) manual docum	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonce	n ernal , universa 47)Class A ondensing	2		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option • Console Cable • CD-ROM with user • QIG (Quick Install Content)	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% 10% to 90% n) manual docum Guide) ents	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonco entation (PDF)	n ernal , universa 47) Class A ondensing included	2 al		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option • Console Cable • CD-ROM with user • QIG (Quick Install Content)	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% n) manual docum Suide) ents lia Firefox vers	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonco , relative, nonco , relative, nonco , relative, nonco	n ernal , universa 47) Class A ondensing included	2 al		Module
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option • Console Cable • CD-ROM with user • QIG (Quick Install Content) • Web browser: Mozi • Category 5 Etherne	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% n) manual docum Suide) ents Ila Firefox vers t network cable	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonco , relative, nonco , relative, nonco , relative, nonco , relative, nonco	n ernal , universa 47) Class A ondensing included Microsoft Inte	2 al	on 6 or later	
Dimensions Weight Power Certification Operating temperature Storage temperature Operating humidity Package Contents • Switch • Power Cord • Mounting Kit (Option • Console Cable • CD-ROM with user • QIG (Quick Install Content)	liminary) 280(W) x 44(1.42Kg 100-240 VAC CE Mark, FC 0 to 50 °C -20°C to 70°C 10% to 90% n) manual docum Suide) ents Ila Firefox vers t network cable	10 H) x 166(D) mr 50~60 Hz, inte CPart 15 (CFR , relative, nonco , relative, nonco , relative, nonco , relative, nonco , relative, nonco	n ernal , universa 47) Class A ondensing included Microsoft Inte	2 al	on 6 or later	

Ordering Information

Model Name	Description		
GS-2310G	8-Port 10/100/1000Base-T + 2 TP / (100/1G) SFP Combo L2 Plus Managed Switch		

Ruby Tech Corp.

3F, No.1, Lane 50, Nan Kang Road, Sec.3, Taipei, Taiwan TEL:886-2-2785-3961 FAX:886-2-2786-3012

installed on each computer in network

http://**www.rubytech.com.tw** E-mail:rubytech@mail.rubytech.com.tw