



GS-2352KX: 44-Port 10/100/1000Base-T + 4 TP / (100/1G) SFP Combo + 4 (1G/10G) SFP+ L2 Plus Managed Switch

Key Features

- L2+ features provide better manageability, security, QoS, and performance
- Dual speed SFPs for FE or GbE fiber uplink; Dual speed SFP+s for GbE or 10G fiber uplink
- 802.3az Energy Efficient Ethernet standard
- IPv6 and s-Flow supports
- Support Static Route function (HW ready, FW Available expect at 2012 Q2)
- Easy-Port-Configuration for ease of setup in the IP Phone, IP Camera or Wireless environment

Overview

The GS-2352KX, 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 optimize your network bandwidth to deliver information and applications more effectively. It provides the ideal combination of affordability and capabilities for enterprise applications and helps you create a more efficient, betterconnected 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-2352KX provides a solution to fit your requirements. Possible implement scenarios include:

- Secure and High Performance PC or laptop connectivity:
 The GS-2352KX 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-2352KX switch connected with WiFi APs allow WiFi clients to work from conference rooms and publicareas, 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:

 To be 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-2352KX Switch providesenhanced 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-2352KX provides security, performance, quality of services, central management 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-2352KX passed the rigorously testing to deliver excellent performance. As a managed switching solution, it also provides 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



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 controllists (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-2352KX 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-2352KX and other Rubytech switches in the network remotely, instead of having to directly connect to them.
- Energy efficiency: GS-2352KX 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 44-port Gigabit UTP ports, the GS-2352KX also offers 4 Combo UTP/ (100/1G) SFP ports for uplinks to Fast Ethernet or Gigabit Ethernet fiber optic networks and 4 1G/10G SFP+ports for uplinks to Gigabit Ethernet or 10G Ethernet fiber optic networks.

Product Specifications

Feature	Description					
Performance						
Switching capacity		Capacity in Millions of	Switching Capacity in Gigabi			
and forwarding rate	Model Name	Packets per Second (mpps)	per Second (Gbps)			
		(64-byte packets)				
	GS-2352KX	130.94	136			
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 26 groups Up to 8 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 \	Management VLAN				
	Private VLAN Edge (PVE)					



Feature	Description			
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS			
Generic VLAN	Protocols for automatically propagating and configuring VLANs in a bridged domain			
Registration				
(GVRP)				
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 102			
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			
4	absence of a multicast router.			
IGMP Proxy	Support IGMP Proxy			
MLD v1/v2	Deliver IPv6 multicast packets only to the required receivers			
snooping	Deliver in volimented supposed only to the required receivers			
Security				
Secure Shell (SSH)	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported			
Protocol	33H Secures remettranic inor out the switch, 33H viralid vz are supported			
	001			
Secure Sockets	SSL encrypts the http traffic, allowing advance secure access to the brows			
Layer (SSL)	er-based management GUI in the switch			
IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, gues			
	VLAN, single/multiple host 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 MAC Addresses to ports, and limits the number of learned MAC addresses			
IP Source Guard	Supports illegal IP address to access 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	Support for 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			
Quality of Service	source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag			
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Hardware Priority Queue Scheduling Classification Rate Limiting IPv6 applications Management Web GUI interface Dual Image SNMP	source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag Support 8 hardware queues Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service (802.1p/ CoS) Port based; 802.1p VLAN 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)			



Feature			Desc	ription		
Firmware upgrade	Web brows	ser upgrade (H				
	Upgrade through console port as well					
		to deploy the s	•	9		
Port mirroring				r port foranalysis wi	th a network	analvzer or
				ts)ports can be mirro		
	port.	op 10 (10)p0:10 0d:1 00:11111		
	•	ion is supporte	ed.			
Easy-Port-	Asingle session is supported. Easily to configure of clients' QoS and Security capabilities.					
Configuration	Labily to cominguit of choins wooding occurry capabilities.					
Other management	Single IP management (Available expect at 2012 Q1); HTTP/HTTPs; SSH; RADIUS;					
	DHCP Client / DHCPv6 Client ; SNTP; cable diagnostics; ping; syslog; Telnet client					
	(SSH secure support)					
s-Flow	`	<u> </u>	ology for mon	itoring high speed sv	vitched netwo	orks. It gives
						_
	complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats					
UPnP	The Universal Plugand Play Forum, an industry group of companies working to enable					
	device-to-device interoperability by promoting Universal Plug and Play					
Green Ethernet	en Ethernet					
Link detection	Compliant with IEEE802.3azEnergy Efficient Ethernet Task Force. Automatically turns					
	off power on Gigabit Ethernet RJ-45 port when detecting link down or idle of client.					
	Active mode is resumed without loss of any packets when the switch detects the link up					
Cable length	Adjusts the signal strength based on the cable length. Reduces the power consumption					
detection	for cables shorter.					
General	neral					
Jumbo frames		Frame sizes up to 9KB supported on Gigabit interfaces				
MAC Table	Up to 32KMA	C addresses.				
Discovery						
Link Layer	Used by networkdevices for advertising their identity, capabilities, and neighbors on a					
Discovery Protocol	IEEE 802 local area network, principally wired Ethernet.					
(LLDP)						
(IEEE802.1AB) with						
LLDP-MED						
extensions Interface						
Ports	Model Name	Total System	RJ-45 Ports	UTP/SFP	SFP	1G/10G
POILS	Widder Name	Ports	KJ-45FUILS	(100/1G)Combo	(100/1G)	SFP+
	GS-2352KX	52	44GbE	4	(100/10)	4
Environmental (pre		32	++ODE	T		
Dimensions		H) x 300(D) mn	n			
Weight	4.1Kg	11) X000(2) 1111	· <u> </u>			
Power	100-240 VAC 50~60 Hz,internal, universal					
Certification	CE Mark, FCC Part 15 Class A					
Operating	0 to 40 ℃					
temperature						
	-20°C to70°C					
Storage	-20°C to70°C					
-	-20°C to70°C					
Storage		relative, nonco	ondensing			

Package Contents

- Switch
- Power Cord
- Mounting Kit
- Console Cable
- CD-ROM with user manual documentation (PDF) included
- QIG (Quick Install Guide)

Minimum Requirements

- Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later
- Category 5 Ethernet network cable
- TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network



Ordering Information

Model Name	Description
GS-2352KX	44-Port 10/100/1000Base-T+4-Port TP/(100/1G) SFP Combo +4-Port 1G/10G SFP+
	L2 Plus Managed Switch