Product introduction

It is multi-functional network smart management switch adopts Realtek's new generation high-performance platform and new self-developed switch system, and supports flexible network management functions such as 802.1Q VLAN, IGMP, port monitoring, port aggregation, bandwidth control, ring application, etc. This series of switches is specially designed for the construction of high-performance complex network requirements, providing a comprehensive security protection system, perfect qo5 strategy and rich VLAN functions, simple management and maintenance, and can be applied to the core layer of small and medium-sized enterprises, communities and schools.

Port performance

- Supply 8*10/ 100/1000M/1.25G/10G SFP ports, all of which can realize line speed forwarding
- Each port supports MDI/ MDIX auto flip and duplex / rate self negotiation
- Support IEEE 802.3x full duplex flow control and backpressure half duplex flow control

Functional features

- Add a variety of new applications based on IPv4, easily adapt to modern complex network management applications
- Support IEEE 802.1X VLAN, users can divide VLAN flexibly according to their needs
- Support voice VLAN, configure QoS parameters for voice data stream, improve the transmission priority of voice data stream and ensure the call quality
- It supports QoS, supports port based, 802.1p and DSCP based priority modes to optimize the bandwidth configuration
- It supports ACL, achieves packet filtering by configuring matching rules, processing operations and time permissions, and provides flexible security access control policies
- Support IGMP V1 / V2 multicast protocol, support IGMP snooping, meet the requirements of multi terminal HD video monitoring and video conference access
- Support multicast VLAN, multicast filtering, efficient data transmission, save network bandwidth, reduce network load
- Support port monitoring, copy the data package of monitored port to the

monitoring port to realize network monitoring
- Support the management and maintenance of equipment through web interface
- Supports port convergence, effectively increases link bandwidth, realizes link backup and improves link reliability

Security & Protection

- Support tree security function, prevent devices in tree network from being attacked by various forms of malicious
- It supports static aggregation and dynamic aggregation, effectively increases link bandwidth, realizes load balancing, link backup, and improves link reliability

Running and Maintenance

- Support web management, CLI command line (console, telnet), SNMP (v1/v2/v3) and other diversified management and maintenance methods
- Supports HTTPS, SSL V3, tlsv1, sshv1/v2 and other encryption methods, and makes management more secure
- Supports RMON, system log and port traffic statistics to facilitate network optimization and transformation
- Users can know the working status of the switch through the power indicator (PWR), port status indicator and system status indicator (sys)

Packing list

- AC power cable
- User manual & warranty card

Product Parameter

Product	Full 10G 8*SFP Smart Managed Switch
Fixed port	8*10GBase-TX SFP port
Network protocol	IIEEE 802.3
	IEEE 802.3i 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab 1000BASE-T
Bandwidth	160Gbps
Packet forwarding	12M
MAC address	16K

Buffer	2.5M
Transmission distance	10BASE-T： Cat3,4,5 UTP(≤250 meter) 100BASE-TX： Cat5 or later UTP(≤100 meter) 1000BASE-TX： Cat6 or later UTP(≤1000 meter) 1000BASE-SX:62.5μm/50μm MMF(2m~550m) 1000BASE-LX:62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m)
FLASH	8M
LED indicator	PWR:Power LED SYS: System LED Link LED; 1000M LED; PoE LED COMBO LED
Power	Built-in power AC：100-240Vac 50-60Hz 5.1A max 425W
Operating temperature/Humidity	-10～+55°C；5%～90% RH Non coagulation
Storage temperature/Humidity	-40～+75°C；5%～95% RH Non coagulation
Product size（L*W*H）	124mm*113mm*3lmm;
G.W (kg)	0.7kg
Installation	Rack-mount(optional machine hanger spare parts)
Lightning protection/ protection level	3KV 8/20us； IP30
Certificate	3C；CE-EMC EN55032；CE-LVD EN62368；FCC Part 15 Class B；RoHS；
Warranty	Whole device for 1 year(Accessories not included)

Software Function

Network protocol	IEEE 802.3x IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z IEEE 802.3ad IEEE 802.3q、IEEE 802.3q/p IEEE 802.1w、IEEE 802.1d、IEEE 802.1S、IEEE 802.1X
MAC	Support 16K MAC address,auto aging and learning
VLAN configuration	Support port-based VLAN Up to 4096 VLANs Support Voice VLAN, can configure Qos for voice data 802.1Q
Port aggregation	Support 8 groups of aggregation, each group support up to 8 ports
Port mirroring	Support many-to-one port mirroring
Loop guard	Support loop protection, real-time detection, quick alarm, concise location, Intelligent blocking, automatic recovery
Port isolation	Support downlink ports isolate from each other and communicate with uplink port as well
Flow control	Half duplex based on Back pressure;

	Full duplex based on PAUSE frame
Speed limitation	Bandwidth management based on port input and output
Multicast control	IGMPv1/2/3 and MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing port, static multicast address
DHCP	DHCP snooping
Storm suppression	Support unknown uni-cast, multicast , unknown multicast, broadcast type storm suppression; Storm suppression based on bandwidth adjustment and storm filtering
Security	Support User port+IP address+MAC address ACL based on IP, MAC Support security properties of number of MAC address based on port
QOS	802.1p port queue priority algorithm Cos/Tos,QOS remark WRR(Weighted Round Robin), weighted priority rotation algorithm WRR、SP、WFQ priority scheduling modes
Cable sequence	Auto-MDIX; auto detection on straight-through and cross-over cable
Negotiation Mode	Port support auto negotiation function(self-negotiation transmission rate and duplex mode)
System maintenance	Upgrade package upload System log viewing WEB recovery factory configuration
Network Management	WEB interface management CLI management based on Telnet、TFTIP、Console SNMP V1/V2/V3 management RMONV1/V2 management RMON management