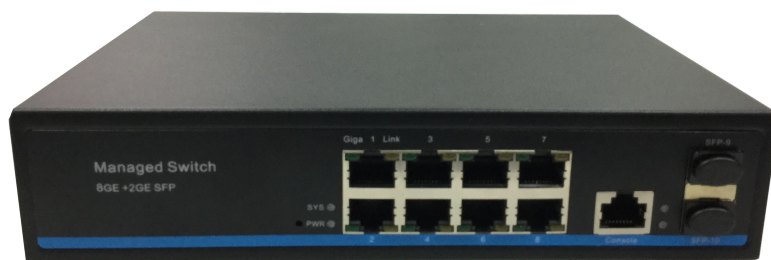## LS820GR

Description

LS820GR is a low cost high performance Managed Gigabit Ethernet switch. This switch supports remote management by Http interfaces. LS820GR supports lots of L2 switch management functions, e.g. 802.1Q VLAN, Rate Control, Port Configuration, Port Mirroring, IGMP Snooping, Loop Protection, QoS functions, ... etc. Auto-MDIX function is supported for every TX port of the switch for easy cable connection. EEE power saving is supported for Green Switch request.

Specification

Hardware	
Port	8*10/100/1000M UTP
	2*1000M SFP
Management port	1*Console
Reset button	1
Switch Capacity	20 Gbps
Forwarding Rate	14.44 Mpps
CPU	500Mhz
RAM	128M
MAC	8K
buffer	4.1M
FLASH	16M
transmission	Store and forward
Working temperature	0°C~50°C
Storage temperature	-40°C~70°C
Operating humidity	10%~90% Non coagulation
Storage humidity	5%~95% Non coagulation
Device size L*W*H	250*105*32mm

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Packing size L*W*H	300*175*100mm
Weight	0.9kg
Power in	AC 100~240V 50~60Hz
Power	≤10W

software	
standards	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, EEE 802.1S
MAC Address	8K MAC addresses；MAC address learning and aging
VLAN	4k VLANs；Port-based VLANs；802.1Q VLAN
Spanning Tree	STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) PPS ring network protocol EAPS ring network protocol 802.1x argumentation agreement
Link Aggregation	Max 8 aggregation groups, each supports 8 ports Static aggregation and dynamic aggregation
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery
Isolation	Support downlink ports isolated from each other and communicate with upstream port
Port flow control	Half duplex based back pressure control Full duplex based on PAUSE frames
Line rate	Support port based input / output bandwidth management
IGMP Snooping	IGMP v1/2/3 MLDv1/2 Snooping GMRP protocol registration Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses
DHCP	DHCP Snooping
Storm suppression	Unknown uni-cast, multicast, unknown multicast, storm suppression of broadcast type Storm suppression based on bandwidth tuning and storm filtering
Security	User port + IP address + MAC ACL based on IP and MAC Security properties of port based MAC address quantities
QoS	802.1p port queue priority algorithm CoS/ToS，QoS sign WRR (Weighted Round Robin)，Weighted priority rotation algorithm WRR, SP, WFQ，3 priority scheduling models

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Port	Auto-MDIX; Auto negotiation
System maintenance	Upgrade package upload；system log view WEB restore factory configuration
Management and maintenance	WEB NMS Remote configuration and maintenance using Telnet SNMP V1/V2/V3；SSHV1/V2 RMON