

<u>GS8F2C</u> Web Smart + Managed GbE Fiber Switch

GS8F2C web smart+ managed GbE fiber switch is the next-generation fiber switch offering powerful L2 features with better functionality and usability. That delivers the cost-effectively business and transports Ethernet services via fiber or copper connections.

GS8F2C delivers 8 (100M/1G) SFP ports and 2 combo Gbe RJ45/SFP ports. GS8F2C provides high HW performance and environment flexibility for SMBs and Enterprises.

The embedded Device Managed System (DMS) features provides users with the benefits of easy-touse/configure/install/troubleshoot in the video surveillance, wireless access, and other SMBs and Enterprises applications. GS8F2C is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership.

Specifications -

- Web Smart+ features provide easier manageability, basic security and QoS
- Built in Device Management System (DMS)
- DHCP Server
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet



Benefits

Cost-effective Ethernet Switch for Enterprise-class

The switch delivers advanced functionality in Web Smart+ managed switch including DHCP client, IGMP, LLDP, etc. It also has basic security features such as IEEE 802.1x to protect your network from unauthorized access.

It helps users to build on the market-leading price/performance with Web Smart+ managed GbE switch, and provide ease of use for enterprise and SMB deployments.

• Easy to Install, Configure and Troubleshoot by Device Management System

The DMS provides embedded functions to facilitate devices management at anytime and anywhere. Its user-friendly interface helps users to manage devices intuitively.

It supports various IP device types (e.g. PC, IP-phone, IP-camera, WiFi-AP) for end users to enhance manageability and save time/cost during installation/maintenance stages.



• Lowing Total Cost of Ownership (TCO) with Energy-efficient Design

The switch is designed to help companies to save power needs and reduce TCO by Energy Efficient Ethernet (IEEE 802.3az). It can be used for customers to build a green Ethernet networking environment.

Port Configuration

Total Ports	SFP (100M/1G)	Uplinks (100M/1G)	Console
10	8	2 Combo	

Hardware Performance

Forwarding Capacity	Switching	Mac Table	Jumbo Frames
(Mpps)	Capacity (Gbps)	(K)	(Bytes)
14.88	20	8	9216

Environmental Range

Operating Temperature		Storage Temperature		Operating Humidity	Altitude	
Fahrenheit	Centigrade	Fahrenheit	Centigrade	10% to 90% non-	Feet	Meters
32 to 149	0 to 65	-4 to 158	-20 to 70	condensing	< 10000	<3000

Dimension, Weights, Humidity

Dimension (WxHxD)		We		
Millimeter	Inches	Kilograms	Pounds	Mounting Type
280x 44x 166	11x 1.7x 6.5	<2.5	<5.5	Desktop, Wall

Voltage and Frequency

	AC Input Voltage and Frequency
Voltage	100 - 240 VAC
Frequency	47 - 63Hz

Certification

Electromagnetic Emissions (EMC)

CE, FCC Part 15 Class A

Software Features

	Layer 2 Switching
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad Static aggregation
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs)



802.1 Q tog-based VLAN Protocol based VLAN IP subnet-based VLAN Private VLAN Edge (PVE) MAC-based VLAN Q-in-Q (double tog) VLAN Voice VLAN GARP VLAN Registration Protocol (GVRP) (option) DHCP Relay Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82 IGMP querier supports 512 multicast groups IGMP Querier Supports 512 multicast groups 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 proxy IGMP packets in order to reduce load on the multicast router Multicast VLAN forward multicast traffic over Layer 2 network in conjunction with IGMP snooping. Secure Sockets SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch. Leper 2 Isolation PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple host mode and single/multiple sessions Supports IGMP-RADIUS based 802.1X Dynamic VLAN Edge Prevents illegal IP address from accessing to specific port in the switch.		
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Source and destination MAC, VLAN ID or IP address, protocol, port, Differentiated services code point (DSCP) / IP precedence		
Differentiated services code point (DSCP) / IP precedence		
	ACLs	TCP/ UDP source and destination ports
		802.1p priority Ethernet type



	Internet Control Message Protocol (ICMP) packets TCP flag
	Quality of Service
Hardware Queue	Supports 8 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR)
Jenedoning	Queue assignment based on DSCP and class of service
Classification	Port based
	802.1p VLAN priority based
D 1 1	Ingress policer
Rate Limiting	Egress shaping and rate control
	Per port
	Management Traffic on a port can be mirrored to another port for analysis with a network
Port Mirroring	analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be
1 OFF MILLOTING	mirrored to single destination port. A single session is supported.
	Used by network devices for advertising their identities, capabilities, and
IEEE 802.1ab	neighbors on an IEEE 802ab local area network
(LLDP)	Support LLDP-MED extensions
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration
Dual Image	Independent primary and secondary images for backup while upgrading
0	The Universal Plug and Play Forum, an industry group of companies
UPnP	working to enable device-to-device interoperability by promoting Universal
	Plug and Play
DHCP Server	Support DHCP server to assign IP to DHCP clients
Remote Monitoring	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics,
(RMON)	alarms, and events) for enhanced traffic management, monitoring and
	analysis
SNMP	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-
519/9/1	based security model (USM)
	The industry standard for monitoring high speed switched networks. It gives
s-Flow(option)	complete visibility into the use of networks enabling performance
3-11000(0011011)	optimization, accounting/billing for usage, and defense against security
	threats
Firmware Upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP
NTP	Network Time Protocol (NTP) is a networking protocol for clock
	synchronization between computer systems over packet-switched
	HTTP/HTTPs
Other	DHCP Client
Management	Cable Diagnostics
	Syslog
	IPv6 Management Device Management System (DMS)
	Topology view: Support intuitive way to configure and manage switches and
	devices with visual relations
Graphical	Floor view: It's easy to drag and drop PoE devices and help you to build
Monitoring	smart workforces
	Map view: Enhance efficiency to drag and drop devices and monitor
	surroundings on google map



Find my Switch	Search your real switches quickly and manage directly.		
Traffic Monitoring	Display visual chart of network traffic of all devices and monitor every port at		
Induic Monitoring	any time from switches		
	Network diagnostic between master switch and devices		
Trouble Shooting	Support protection mechanism, such as rate-limiting to protect your devices		
	from brute-force downloading		