



GS-5220-16S8C / GS-5220-16S8CR

L2+ 24-Port 100/1000X SFP + 8-Port Shared TP Managed Switch

L3

Static Routing

SFP

DDM

Redundant Power

AC/DC

IPv6

Management

QinQ

VLAN

MSTP



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Hardware Specifications

Copper Ports	8 10/100/1000Base-T RJ-45 Auto-MDI/MDI-X ports, shared with Port-1~Port-8
SFP/mini-GBIC Slots	24 100/1000Base-X dual-speed SFP interfaces
Console	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	48Gbps / non-blocking
Throughput	35.7Mpps@64Bytes
Address Table	16K entries, automatic source address learning and ageing
Shared Data Buffer	16M bits
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Jumbo Frame	10K bytes
Reset Button	< 5 sec: System reboot > 5 sec: Factory default
Dimensions (W x D x H)	440 x 200 x 44.5 mm, 1U height
Weight	2745g
	System: PWR (Green) DC (Green) (GS-5220-16S8CR Only) Fault (Red) FAN (Red)
LED	10/100/1000T RJ45 Interfaces (Port 1 to Port 8): 1000Mbps LNK/ACT (Green) 10/100Mbps LNK/ACT (Orange)

100/1000Mbps SFP Interfaces (Port 1 to Port 24):

1000Mbps LNK/ACT (Green)

100Mbps LNK/ACT (Orange)

Power Requirements

GS-5220-16S8C: 100~240V AC, 50/60Hz

GS-5220-16S8CR: 100~240V AC, 50/60Hz

48V DC @ 0.6A, Range: 36 ~ 60V

Power Consumption

45 watts / 153 BTU (max.)

ESD Protection

6KV DC

Layer 2 Functions**Port Configuration**

Port disable / enable

Auto-negotiation 10/100/1000Mbps full and half duplex mode selection

Flow control disable / enable

Port Status

Display each port's speed duplex mode, link status, flow control status, auto-negotiation status, trunk status

Port Mirroring

TX / RX / Both

Many-to-1 monitor

VLAN

802.1Q tagged based VLAN

Q-in-Q tunneling

Private VLAN Edge (PVE)

MAC-based VLAN

Protocol-based VLAN

Voice VLAN

IP Subnet-based VLAN

MVR (Multicast VLAN Registration)

Up to 255 VLAN groups, out of 4094 VLAN IDs

Link Aggregation

IEEE 802.3ad LACP / Static Trunk

12 groups of 8-port trunk supported

Spanning Tree Protocol

STP, IEEE 802.1D Spanning Tree Protocol

RSTP, IEEE 802.1w Rapid Spanning Tree Protocol

MSTP, IEEE 802.1s Multiple Spanning Tree Protocol

QoS

Traffic classification based, Strict priority and WRR

8-Level priority for switching

- Port Number
- 802.1p priority
- 802.1Q VLAN tag
- DSCP/TOS field in IP packet

IGMP Snooping

IGMP (v1/v2/v3) Snooping, up to 255 multicast groups

IGMP Querier mode support

MLD Snooping

MLD (v1/v2) Snooping, up to 255 multicast groups

MLD Querier mode support

Access Control List

IP-based ACL / MAC-based ACL

Up to 256 entries

Bandwidth Control

Per port bandwidth control

Ingress: 100Kbps~1000Mbps

Egress: 100Kbps~1000Mbps

Layer 3 Functions**IP Interfaces** Max. 128 VLAN interfaces**Routing Table** Max. 32 routing entries**Routing Protocols** IPv4 hardware Static Routing
IPv6 hardware Static Routing**Management****Basic Management Interfaces** Console / Telnet / Web browser / SNMP v1, v2c**Secure Management Interfaces** SSH, SSL, SNMP v3**SNMP MIBs**RFC 1213 MIB-II
RFC 1493 Bridge MIB
RFC 1643 Ethernet MIB
RFC 2863 Interface MIB
RFC 2665 Ether-Like MIB
RFC 2819 RMON MIB (Group 1, 2, 3 and 9)
RFC 2737 Entity MIB
RFC 2618 RADIUS Client MIB
RFC 2863 IF-MIB
RFC 2933 IGMP-STD-MIB
RFC 3411 SNMP-Frameworks-MIB
RFC 4292 IP Forward MIB
RFC 4293 IP MIB
RFC 4836 MAU-MIB
IEEE 802.1X PAE
LLDP**Standards Conformance****Regulation Compliance** FCC Part 15 Class A, CE**Standards Compliance**IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/100Base-FX
IEEE 802.3z Gigabit SX/LX
IEEE 802.3ab Gigabit 1000Base-T
IEEE 802.3x Flow Control and Back pressure
IEEE 802.3ad port trunk with LACP
IEEE 802.1D Spanning Tree protocol
IEEE 802.1w Rapid Spanning Tree protocol
IEEE 802.1s Multiple Spanning Tree protocol
IEEE 802.1p Class of service
IEEE 802.1Q VLAN tagging
IEEE 802.1X port authentication network control
IEEE 802.1ab LLDP
RFC 768 UDP
RFC 793 TFTP
RFC 791 IP
RFC 792 ICMP
RFC 2068 HTTP

RFC 1112 IGMP version 1

RFC 2236 IGMP version 2

RFC 3376 IGMP version 3

RFC 2710 MLD version 1

RFC 3810 MLD version 2

Environment

Operating

Temperature: 0 ~ 50 degrees C

Relative Humidity: 5 ~ 95% (non-condensing)

Storage

Temperature: -10 ~ 70 degrees C

Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

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