



## PLANET GS-5220-16S8C

1350 .

### Hardware Specifications

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

<b>Power Requirements</b>	GS-5220-16S8C: 100~240V AC, 50/60Hz GS-5220-16S8CR: 100~240V AC, 50/60Hz 48V DC @ 0.6A, Range: 36 ~ 60V
<b>Power Consumption</b>	45 watts / 153 BTU (max.)
<b>ESD Protection</b>	6KV DC
<b>Layer 2 Functions</b>	
<b>Port Configuration</b>	Port disable / enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable / enable
<b>Port Status</b>	Display each port's speed duplex mode, link status, flow control status, auto-negotiation status, trunk status
<b>Port Mirroring</b>	TX / RX / Both Many-to-1 monitor
<b>VLAN</b>	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
<b>Link Aggregation</b>	IEEE 802.3ad LACP / Static Trunk 12 groups of 8-port trunk supported
<b>Spanning Tree Protocol</b>	STP, IEEE 802.1D Spanning Tree Protocol RSTP, IEEE 802.1w Rapid Spanning Tree Protocol MSTP, IEEE 802.1s Multiple Spanning Tree Protocol
<b>QoS</b>	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
<b>IGMP Snooping</b>	IGMP (v1/v2/v3) Snooping, up to 255 multicast groups IGMP Querier mode support
<b>MLD Snooping</b>	MLD (v1/v2) Snooping, up to 255 multicast groups MLD Querier mode support
<b>Access Control List</b>	IP-based ACL / MAC-based ACL Up to 256 entries

<b>Bandwidth Control</b>	Per port bandwidth control Ingress: 100Kbps~1000Mbps Egress: 100Kbps~1000Mbps
Layer 3 Functions	
<b>IP Interfaces</b>	Max. 128 VLAN interfaces
<b>Routing Table</b>	Max. 32 routing entries
<b>Routing Protocols</b>	IPv4 hardware Static Routing IPv6 hardware Static Routing
Management	
<b>Basic Management Interfaces</b>	Console / Telnet / Web browser / SNMP v1, v2c
<b>Secure Management Interfaces</b>	SSH, SSL, SNMP v3
<b>SNMP MIBs</b>	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	
<b>Regulation Compliance</b>	FCC Part 15 Class A, CE
<b>Standards Compliance</b>	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

**GS-5220-16S8C** L2+ 24-port 100/1000X SFP + 8-port Shared TP Managed Switch

**GS-5220-16S8CR** L2+ 24-port 100/1000X SFP + 8-port Shared TP Managed Switch + Redundant AC/DC Power