16-Port Web Smart Gigabit Ethernet Switch with 2 Shared SFP

The PLANET GSW-1602SF is a 16-Port 10/100/1000Mbps Web Smart non-blocking wire-speed performance Ethernet Switch. With a 32Gbps internal switching fabric, the Switch can handle extremely large amounts of data in a secure topology linking to a backbone or high capacity servers. The GSW-1602SF could recognize up to 8K MAC Address table and provides 340KB on-chip frame buffer. They offer wire-speed packet transfer performance without risk of packet loss. With high data throughput, the GSW-1602SF provides the most convenient for user to upgrade their network to Gigabit environment.

All RJ-45 copper interfaces support 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. Also, all the ports support Auto-MDI/MDI-X that can automatically detect the type of connection to any Ethernet device without requiring special straight or crossover cables. 16-Port TP by default and together with 2 shared SFP (Small Form-factor Pluggable), shared with port-15 and port-16, make the switch be a 2-Port Gigabit Fiber Switch with mini-GBIC fiber-optic module installed that shall provide long distance fiber connectivity.

The GSW-1602SF provides Smart Management functions through the Web Management Interface. Functions such as per port speed, duplex, IEEE 802.3x flow-control settings and QoS settings, Trunking and VLAN, Port mirroring, IGMP Snooping and IEEE 802.1x. All can be found in the friendly user interface of your web browser. These features provide a cost-effective way to manage the devices from Internet whenever you are at work or at home.

KEY FEATURE

Generic Features

- Complies with IEEE 802.3, 10Base-T, IEEE 802.3u, 100Base-TX, IEEE 802.3ab,1000Base-T, IEEE 802.3z, 1000Base-SX/LX, Ethernet standard
- 16-Port 10/100/1000Mbps Gigabit Ethernet ports
- 2-Port SFP (Small Form-factor Pluggable) for 3.3V mini-GBIC module
- Auto-MDI/MDI-X detection on each RJ-45 port, support CSMA/CD protocol
- Prevents packet loss with back pressure (half-duplex) and 802.3x PAUSE frame flow control (full-duplex)
- 8K MAC address table, automatic source address learning and ageing
- 32Gbps switch fabric, non-blocking switch architecture
- 9K Jumbo Frame support at all speed (10/100/1000 Mbps)

Layer 2 Switching

- Support port-based and 802.1Q VLAN function, up to 64 VLAN groups
- 802.1w Rapid-Spanning Tree protocol support
- Link Aggregation support static mode and LACP (802.3ad) - up to 8 Trunk groups, each trunk for up to maximum 8 ports
- IGMP Snooping - multicast filtering

Quality of Service

- 4 QoS classes per port
- Traffic class assignment based on 802.1p tag, or DSCP field
- Multicast and Broadcast Storm Control as well as Flooding Control
- Ingress Rate Limit and Egress Shaping for bandwidth control in steps of 128kbps
- Security
- Port Mirroring support for dedicated port monitoring
- 802.1x Port-Base access control, RADIUS ServerAuthentication
- Source IP filter per port to block unwanted access
- Static MAC Address assign destination MAC address at specifies port.

Management

- Remote Web management interface
- Firmware upgrade through web interface
- Cable Diagnostics technology

SPECIFICATION

Product	16-Port Web Smart Gigabit Ethernet Switch with 2 Shared SFP

Model	GSW-1602SF
Hardware Specification	
10/100/1000Base-T Ports	16-Port RJ-45 10/100/1000Mbps, Auto Negotiation, Auto-MDI/MDI-X
SFP Ports	2 port 3.3VC mini-GBIC SFP 1000Mbps full-duplex; shared with port-15 and port-16
Switch Processing Scheme	Store-and-Forward
Switch Fabric	32Gbps
Throughput (packet per second)	23.8Mbps
Share data Buffer	340KB
Address Table	8K entries
Flow Control	Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex
Dimensions	440 x 120 x 44 mm (1U height)
Weight	2.0 kg
Power Requirement	100~240 VAC, 50-60 Hz
Power Consumption / Dissipation	Max. 30 Watts
Temperature	Operating: 0~50 Degree C, Storage -40~70 Degree
Humidity Operating	10% to 90%, Storage: 5% to 95% (Non-condensing)
Switch Specification	
Management	Web remote control
VLAN	Up to 64 port-based VLAN, 802.1q VLAN Tagged
Port Mirror	RX
Port Trunk	8-Trunk Group / 8-Port
Rate Control	0~99%; 0 for wire-speed
Jumbo frame	Disable, 4K, 9K
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet, 1000Base-SX/LX) IEEE 802.1Q (Tagged VLAN) IEEE 802.1w (Rapid Spanning Tree) IEEE 802.1x (Port-Based Authentication) IEEE 802.3ad (Link Aggregation Control Protocol) IEEE 802.3x (Full-duplex Flow Control)

APPLICATIONS

Backbone Switch

With up to 32 Gigabits per second of non-blocking switch fabric, these switches can easily provide the high bandwidth required both now and in the future. Max. 2 SFP interfaces can distribute the network to a long distance as soon as mini-GBIC fiber-optic module installed.

Server Farm Switch

Providing either 16 TP or up to 2 SFP Gigabit Ethernet ports, the Switch are ideal for use as a server farm switch connecting your servers and powerful desktops local or remote over fiber-optic. Port Trunk support also increases the bandwidth capacity between switches.

ORDERING INFORMATION

GSW-1602SF	16-Port Web Smart Gigabit Ethernet Switch with 2-SFP

AVAILABLE MODULES

MGB-GT	SFP-Port 1000Base-T Module	*MGB-LA10*	SFP-Port 1000Base-LX (WDM, TX:1310nm) mini-GBIC module-10KM
MGB-SX	SFP-Port 1000Base-SX mini-GBIC module	*MGB-LB10*	SFP-Port 1000Base-LX (WDM, TX:1550nm) mini-GBIC module-10KM
MGB-LX	SFP-Port 1000Base-LX mini-GBIC module	*MGB-LA20*	SFP-Port 1000Base-LX (WDM, TX:1310nm) mini-GBIC module-20KM
MGB-L50	SFP-Port 1000Base-LX mini-GBIC module-50KM	*MGB-LB20*	SFP-Port 1000Base-LX (WDM, TX:1550nm) mini-GBIC module-20KM
MGB-L70	SFP-Port 1000Base-LX mini-GBIC module-70KM	*MGB-LA40*	SFP-Port 1000Base-LX(WDM, TX:1310nm) mini-GBIC module-40KM
MGB-L120	SFP-Port 1000Base-LX mini-GBIC module-120KM	*MGB-LB40*	SFP-Port 1000Base-LX (WDM, TX:1550nm) mini-GBIC module-40KM

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