

# 16/24-Port 10/100Mbps + 2 Gigabit TP / SFP Combo Ethernet Smart Switch



The FGSW-1820RS and FGSW-2620RS are the replacement Ethernet smart Switches for previous FGSW-1602RS and FGSW-2402RS from PLANET technology.

The FGSW-1820RS / FGSW-2620RS provide 16/24 10/100Mbps Fast Ethernet ports and two Gigabit Ethernet ports, either TP or SFP per port. The two Gigabit ports either can be 1000Base-T for 10/100/1000Mbps or 1000Base-SX/LX through SFP (Small Form-factor Pluggable) interface. The distance can be extended from 100 meters (TP), 550 meters (Multi-mode fiber), up to above 10/50/70/120 kilometers (Single-mode fiber).

The FGSW-1820RS / FGSW-2620RS, equipped with non-blocking 8.8Gbps backplane, greatly simplifies the tasks of upgrading your LAN for catering to increase bandwidth demands.

For efficient management, the FGSW-1820RS / FGSW-2620RS 16/24-Port 10/100Mbps + 2 Gigabit TP / SFP combo Ethernet Smart Switch is equipped with console interface. The FGSW-1820RS / FGSW-2620RS can be programmed for basic switch management functions such as port speed configuration, Port Trunking, VLAN, QoS, bandwidth control, and IGMP Snooping.

The FGSW-1820RS / FGSW-2620RS provide port-based VLAN (including overlapping). The VLAN groups, allowed on the FGSW-1820RS / FGSW-2620RS, will be maximally up to 26 for port-based VLAN. Via supporting port trunking, the FGSW-1820RS / FGSW-2620RS allow the operation of a high-speed trunk combining multiple ports. The FGSW-1820RS / FGSW-2620RS also provide six / eight groups of up to 4-ports for trunking, and it supports fail-over as well.

## KEY FEATURE

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z Gigabit Ethernet standard
- 16/24-Port 10/100Mbps Fast Ethernet Switch
- 2 10/100/1000Mbps ports and 2 SFP interfaces
- Each Switching ports support auto-negotiation-10/20, 100/200Mbps supported
- Auto-MDI/MDI-X detection on each RJ-45 port
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x PAUSE frame flow control (full-duplex)
- High performance Store and Forward architecture, broadcast storm control, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- 8K MAC address table, automatic source address learning and ageing
- 2.5Mbit embedded memory for packet buffers
- Console interface for Switch basic management and setup
- Supports up to 26 port-based VLAN groups
- Supports up to 6/8 Trunk groups, each trunk for up to maximum 4 port with 800Mbps bandwidth
- Supports QoS and bandwidth control on each port
- Supports IGMP Snooping
- EMI standards complies with FCC, CE class A

## SPECIFICATION

Product	16/24-Port 10/100Mbps + 2 Gigabit TP / SFP combo Ethernet Smart Switch
Model	FGSW-1820RS / FGSW-2620RS
<b>Hardware Specification</b>	
Ports	16/24 10/ 100Base-TX RJ-45 Auto-MDI/MDI-X ports
Gigabit Ports	2 10/100/1000Mbps ports and 2 SFP interfaces
Switch Processing Scheme	Store-and-forward
Throughput (packet per second)	FGSW-1820RS: 5.35Mpps. FGSW-2620RS: 6.54Mpps
Switch Fabric	8.8Gbps
Address Table	8K entries
Share Data Buffer	2.5 Mbit
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	FGSW-1820RS: 1.46 kg FGSW-2620RS: 1.57 kg
Power Requirement	100~240 VAC, 50-60 Hz
Power Consumption / Dissipation	FGSW-1820RS: 13.2 watts / 45BTU FGSW-2620RS: 23.1 watts / 78BTU
Temperature	Operating: 0~50 Degree C Storage -40~70 Degree
Humidity Operating	5% to 90%, Storage: 5% to 90% (Non-condensing)
<b>Smart Function</b>	
System Configuration	Console interface
Port Configuration	Port disable/enable. Auto-negotiation 10/100Mbps full and half duplex mode selection. Flow control disable / enable. Bandwidth control on each port.
Port Status	Display each port's speed duplex mode, link status, Flow control status. Auto negotiation status, trunk status
VLAN	26 port-based VLAN groups
Port Trunking	Support 6 / 8 groups of 4-Port trunk support
QoS	Allow to assign high priority on each port
IGMP Snooping	Allow to disable or enable.
<b>Standards Conformance</b>	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3x (full-duplex flow control) IEEE 802.1p QoS

## APPLICATIONS

### Workgroup Switch

With 16/24 10/100Mbps ports and up to two copper or Gigabit-Ethernet fiber ports, the FGSW-1820RS / FGSW-2620RS provide a cost-effective, high-performance solution for power users.

### Department Switch

With its 8.8 Gigabits per second, non-blocking switch fabric, the FGSW-1820RS / FGSW-2620RS can easily provide a local, high bandwidth, Fast Ethernet network for backbone of your department. With the two SFP ports, the FGSW-1820RS / FGSW-2620RS provide the uplink to the backbone network through Gigabit Ethernet LX / SX SFP modules.

## ORDERING INFORMATION

FGSW-1820RS	16-Port 10/100Mbps + 2 Gigabit TP / SFP combo Ethernet Smart Switch
FGSW-2620RS	24-Port 10/100Mbps + 2 Gigabit TP / SFP combo Ethernet Smart Switch

## AVAILABLE MODULES

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