

## 24-Port 10/100Mbps + 2- Gigabit Web Smart PoE Switch

**FGSW-2620PVSv2 / FGSW-2612PVSv2**

Preliminary Release November 2006

For catering to the need of remote management and more advanced functions of the in-line power, PLANET releases two new versions of Web Smart PoE (Power over Ethernet) Switches, the FGSW-2620PVSv2 and FGSW-2612PVSv2.

The new PLANET FGSW-2620PVS and FGSW-2612PVS provides 24 10/100Mbps Fast Ethernet ports and 2 Gigabit TP/SFP combo ports, 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).

Both Web Smart PoE Switches are equipped with non-blocking 8.8Gbps backplane greatly simplifies the tasks of upgrading your LAN to cater for increased bandwidth demands. The PoE in-line power follows the standard IEEE 802.3af for making the both FGSW-2620PVS and FGSW-2612PVS able to power on 24/12 PoE devices at the distance up to 100 meters through the 4-pair Cat 5/5e UTP wire.

For efficient management, both Web Smart PoE Switches are equipped with web interface. The FGSW-2620PVS and FGSW-2612PVS can be programmed on basic switch management functions, such as port speed configuration, Port Trunking, Port-based VLAN, Port Mirroring, QoS, bandwidth control, Access Control list and Misc Configuration, PoE port configuration.

Both Web Smart PoE Switches provide port-based VLAN (included overlapping). The VLAN groups allow the 2 Web Smart PoE Switches for being maximally up to 26 for port-based VLAN. Via supporting port trucking, the FGSW-2620PVS and FGSW-2612PVS allow the operation of high-speed trunk combining multiple ports and provide seven groups of up to 8-ports for trucking. And it supports fail-over as well.

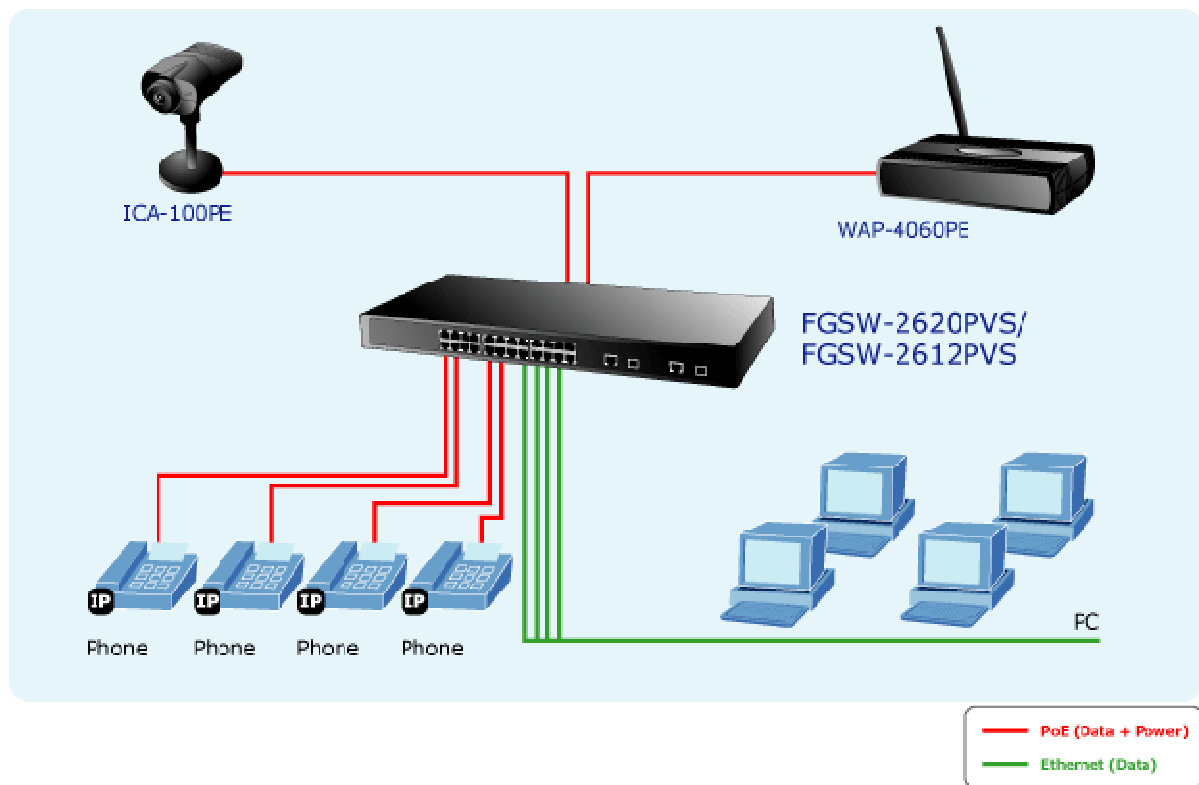
With its Auto-Negotiation capability, all the RJ-45/STP ports of FGSW-2620PVS and FGSW-2612PVS can be configured to speed on 10/20Mbps or 100/200Mbps automatically. In addition, the product is equipped with the auto-detected MDI/MDI-X for plugging easily.

### Application

#### Department/workgroup PoE Switch

With 24 10/100Mbps ports and 2 Gigabit TP/SFP combo ports, the FGSW-2620PVS and FGSW-2612PVS provide a cost-effective, high-performance solution for power users. With its 8.8 Gigabits per second, non-blocking switch fabric, both Web Smart PoE Switch can easily provide a local, high bandwidth, Fast Ethernet network for your departmental backbone. Providing up to 24 / 12 PoE, in-line power interface, the FGSW-2620PVS and FGSW-2612PVS can easily build a power central-controlled IP phone system, IP Camera system, AP group for the enterprise. For instance, 24 / 12 camera / AP can be easily installed around the corner in the company for surveillance demands or build a wireless roaming environment in the office. Without the power-socket limitation, the FGSW-2620PVS and FGSW-2612PVS make the installation of cameras or WLAN AP easier and more efficient.





## MTU Switch

In an MTU/MDU application, the advanced functionality of the FGSW-2620PVS and FGSW-2612PVS eliminates traditional problems associated with Ethernet. Using the built-in VLAN functionality can segregate users. This coupled with the flexible SFP mini-GBIC fiber module options makes the FGSW-2620PVS and FGSW-2612PVS be one of the best and most cost-effective switch solutions for multi-tenant service providers.

## Features

- ☐ Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3z and IEEE 802.3ab Gigabit Ethernet standard
- ☐ 24-Port 10/100Mbps Fast Ethernet Switch
- ☐ 2-Port Gigabit TP/SFP combo ports
- ☐ 12-Port PoE( FGSW-2612PVS) and 24-Port PoE( FGSW-2620PVS)
- ☐ Each Switching port supports auto-negotiation-10/20, 100/200Mbps supported
- ☐ Supports IEEE 802.3af 15.4 watts power output on each port
- ☐ Auto-MDI/MDI-X detection on each RJ-45 port
- ☐ Prevents packet loss with back pressure (half-duplex) and 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
- ☐ 512K Bytes packet buffers
- ☐ Web interface for Switch basic management and setup
- ☐ Supports up to 26 port-based VLAN groups
- ☐ Supports up to 7 Trunk groups, each trunk for up to maximum 8 port with 800Mbps bandwidth
- ☐ Port mirroring allows to monitor the traffic across any port in real time
- ☐ Supports QoS and bandwidth to control each port

- ☐ Supports Access Control List function
- ☐ 19-inch rack mount size
- ☐ Internal full-range power supply suitable for worldwide use
- ☐ EMI standards comply with FCC, CE class A

## SPECIFICATION

Product	FGSW-2620PVS	FGSW-2612PVS
Hardware Specification		
Ports	24 10/ 100Base-TX RJ-45 Auto-MDI/MDI-X ports	
Module Slots	2 Gigabit TP/SFP combo ports	
PoE ports	24( port 1 to port 24)	12( port 1 to port 12)
Switch Processing Scheme	Store-and-forward	
Throughput (packet per second)	6.547Mpps	
Switch fabric	8.8Gbps	
Address Table	8K entries	
Share data Buffer	512K Bytes	
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex	
Dimensions	440 x 265 x 44 mm, 1U height	
Weight	3.87kg	3.51kg
Power Requirement	100~240V AC, 50-60 Hz	
Switch Power Consumption / Dissipation	13.5 Watts maximum / 46 BTU/hr maximum	
PoE Power Consumption / Dissipation	260 Watts maximum / 887 BTU/hr maximum	130 Watts maximum / 443 BTU/hr maximum
Temperature	Operating: 0~50 degree C, Storage -40~70 degree C	
Humidity Operating:	10% to 90%, Storage: 5% to 95% (Non-condensing)	
Smart function		
System Configuration	Web interface	
Port Status	Display per port's disable/enable status, per port's link status and speed duplex mode. Also the Flow control status	
Port Configuration	Per port disable/enable, Auto-negotiation disable/enable. 10/100Mbps full and half duplex mode selection. Flow control disable/enable and bandwidth control on each port	
Trunk Configuration	Supports 7 groups of 8-Port trunk	
VLAN Configuration	Maximum up to 26 VLAN groups for port-based VLAN	
Port Monitoring	One Mirroring port to monitor one mirrored port. The monitor modes are RX, TX and RX & TX	
QoS Configuration	IEEE 802.1p QoS on each port	
Port counters	Display detail traffic counters on each port	
Access Control List	Supports up to 16 Access Control list group	



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<b>PoE Ports configuration</b>	Per PoE port disable / enable and power feeding priority assign
<b>PoE Ports Status</b>	Per PoE port status such as Enable or disable, power consumption and current.
<b>Standards Conformance</b>	
<b>Regulation Compliance</b>	FCC Part 15 Class A, CE
<b>Standards Compliance</b>	IEEE 802.3 (Ethernet)
	IEEE 802.3u (Fast Ethernet)
	IEEE 802.3ab(Gigabit Ethernet)
	IEEE 802.3z(Gigabit Ethernet)
	IEEE 802.3af Power over Ethernet
	IEEE 802.3x (Full-duplex flow control)
	IEEE 802.1p QoS

## Ordering Information

<b>FGSW-2620PVS</b>	24-Port 10/100Mbps / PoE +2 Gigabit TP/SFP combo ports Web Smart Ethernet Switch
<b>FGSW-2612PVS</b>	24-Port 10/100Mbps / 12-Port PoE +2 Gigabit TP/SFP combo ports Web Smart Ethernet Switch

## Available SFP mini-GBIC modules

<b>MGB-GT</b>	1000Base-T module
<b>MGB-SX</b>	1000Base-SX module – SC MM 2KM
<b>MGB-LX</b>	1000Base-LX module – SC SM 10KM
<b>MGB-L50</b>	1000Base-LX module –SC SM 50KM
<b>MGB-L70</b>	1000Base-LX module –SC SM 70KM
<b>MGB-LA10</b>	1000Base-LX module- LC WDM(TX:1310nm), SM,10km
<b>MGB-LB10</b>	1000Base-LX module- LC WDM(TX:1550nm), SM,10km
<b>MGB-LA20</b>	1000Base-LX module- LC WDM(TX:1310nm), SM,20km
<b>MGB-LB20</b>	1000Base-LX module- LC WDM(TX:1550nm), SM,20km
<b>MGB-LA40</b>	1000Base-LX module- LC WDM(TX:1310nm), SM,40km
<b>MGB-LB40</b>	1000Base-LX module- LC WDM(TX:1550nm), SM,40km

Longer distance modules (up to 120km) are available upon request.



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