

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



## *Cost-effective Edge Network Connection Solution*

The FGSW-2620CS provides 24 Fast Ethernet ports with 2 Gigabit Ethernet combo ports and offers wire-speed packet transfer performance without risks of packet loss. It is equipped with non-blocking 8.8Gbps backplane; greatly simplifies the tasks of upgrading your LAN for catering to increasing bandwidth demands. The high data throughput makes the FGSW-2620CS ideal for most Gigabit environments, especially upgrading network to a Gigabit environment.

## *Advanced and Friendly Web-Based Management*

For efficient management, the FGSW-2620CS is equipped with remote Web interface. It can be programmed for advanced switch management functions such as port configuration, Port-Based / IEEE 802.1Q / MTU VLAN, port mirroring, port trunk, QoS, bandwidth control, broadcast storm control, STP, RSTP, configuration backup/recovery, MAC address / TCP & UDP filter and IGMP Snooping v1/v2.

The FGSW-2620CS provides Port-Based / IEEE 802.1Q / MTU VLAN (port based / IEEE 802.1Q VLAN including overlapping). The VLAN groups allowed on the FGSW-2620CS will be maximally up to 26 for port based or up to 32 for IEEE 802.1Q VLAN groups. On the other hand, the MTU VLAN divides port 1 to port 24 as separate LAN group and only can access the public port 25 / 26 or port 26. Via supporting port trunking, the FGSW-2620CS allows the operation of a high-speed trunk combining multiple ports. The FGSW-2620CS also provides two groups of up to 4-Port 10/ 100Base-TX trunk support with up to 800Mbps bandwidth per trunk and 1 group of 2-Port 10/100/1000Mbps trunk support with up to 2000Mbps bandwidth per trunk, and supports fail-over as well.

## *Easy Long Distance Installation*

The FGSW-2620CS is equipped with the MDI/MDI-X auto detection for easy plug and play connection, regardless of cabling types in straight through or crossover. In addition, with its Auto-Negotiation capability, all the RJ-45/UTP ports of the FGSW-2620CS can be configured to speeds of 10/20Mbps / 100/200Mbps (Fast Ethernet) and 1000/2000Mbps (Gigabit Ethernet) automatically.

The two Gigabit combo ports of the FGSW-2620CS can be either 1000Base-T for 10/100/1000Mbps or 1000Base-SX/LX through SFP (Small Form Factor Pluggable) interfaces. The distance can be extended from 100 meters (TP), 550 meters (Multi-mode fiber), up to above 10/20/30/40/50/70/120 kilometers (Single-mode fiber).

## KEY FEATURES

### PHYSICAL PORT

- **24 x 10/100Base-TX** Fast Ethernet ports
- **2 x 10/100/1000Base-T** TP ports
- **2 x 1000Base-X SFP** slots, shared with Port-25 and Port-26

### LAYER 2 FEATURES

- 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, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Supports **VLAN**
  - IEEE 802.1Q Tag-Based VLAN
  - Port-Based VLAN

- MTU VLAN (Multi-Tenant Unit VLAN)
- Supports **Spanning Tree Protocol**
  - STP, IEEE 802.1D (Classic Spanning Tree Protocol)
  - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
  - Loopback Detection
- Supports **Link Aggregation**
  - up to 3 trunk groups
  - up to 4 Fast Ethernet ports or 2 Gigabit ports per trunk group
  - IEEE 802.3ad LACP (Link Aggregation Control Protocol)
  - Cisco ether-channel (Static Trunk)
- Port Mirroring to monitor the incoming or outgoing traffic on a particular port

### QUALITY OF SERVICE

- 2 priority queues on all Switch ports
- Traffic classification
  - Port-Based priority
  - IEEE 802.1p based priority
  - IP TOS / DSCP based priority
  - TCP / UDP Port-Based QoS
- Strict priority and Weighted Round Robin (WRR) CoS policies
- In/Out rate limit control on each port
- Broadcast Storm Control support

### MULTICAST

- Supports IGMP Snooping v1 and v2

### SECURITY

- MAC address filter
- TCP & UDP filter on each port
- Management idle time security

### MANAGEMENT

- Remote Web interface for Switch management and setup
- Supports SNMP v1
- Supports DHCP Option82 and DHCP Relay
- Firmware upgrade through Web interface
- Configuration upload / download through Web interface
- Reset button for system reboot or reset to factory default
- PLANET Smart Discovery Utility for deploy management

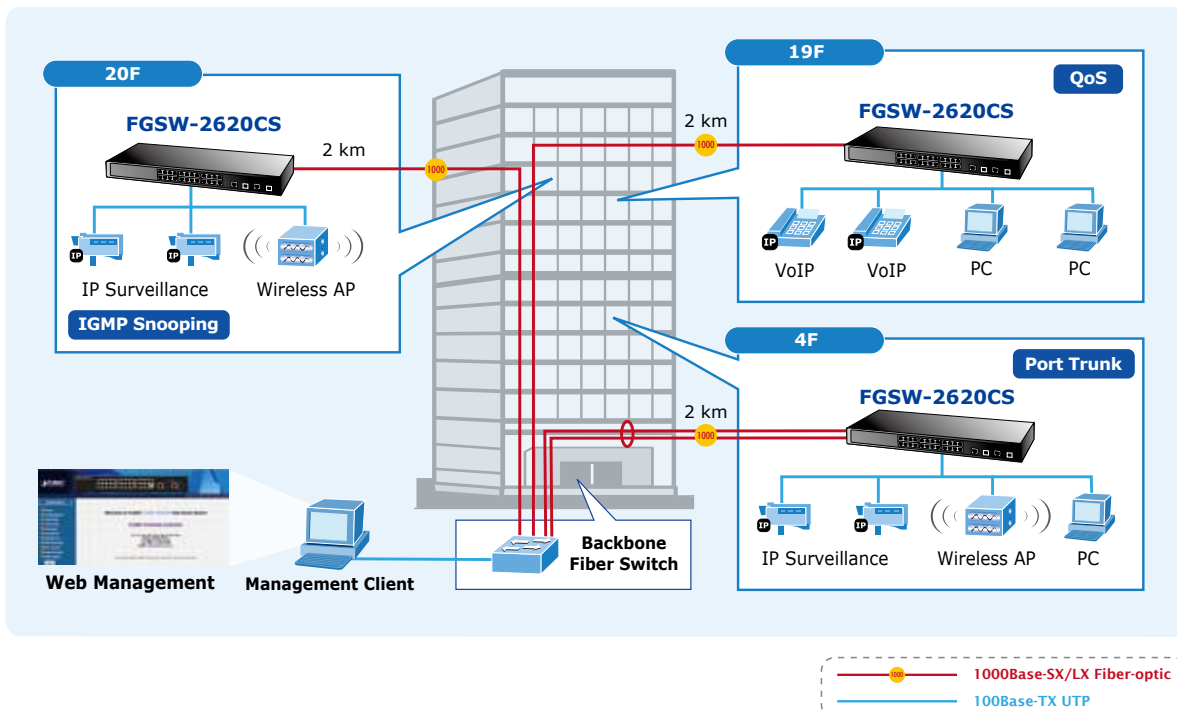
## APPLICATIONS

### Workgroup Switch

With 24 10/100Mbps ports and up to 2 copper or Gigabit Ethernet fiber ports, the FGSW-2620CS provides a cost-effective, high-performance solution for power users.

### Department Switch

The FGSW-2620CS can easily build a local, high bandwidth Fast Ethernet network for backbone of your department by performing 8.8 Gigabits per second, non-blocking switch fabric. With the two built-in SFP ports, the FGSW-2620CS provides the uplink to the backbone network through Gigabit Ethernet LX/SX SFP modules.



**SPECIFICATION**

Product	<b>24-Port 10/100Mbps + 2 Gigabit TP / SFP Combo Web Smart Switch</b>
Model	<b>FGSW-2620CS</b>
<b>Hardware Specification</b>	
Hardware Version	Version 2
10/100Mbps Copper Ports	24 x 10/100Base-TX RJ-45 Auto-MDI/MDI-X ports
1000Mbps Copper Ports	2 x 10/100/1000Base-T RJ-45 Auto-MDI/MDI-X ports
SFP / mini-GBIC Slots	2 x 1000Base-SX/LX/BX SFP slots, shared with Port-25 and Port-26
Switch Processing Scheme	Store-and-Forward
Switch Fabric	8.8Gbps
Switch Throughput	6.547Mpps@64Bytes
Address Table	4K entries
Share Data Buffer	2.75Mb embedded memory for packet buffers
Flow Control	Back pressure for half duplex IEEE 802.3x Pause Frame for full duplex
Dimension (W x D x H)	440 x 120 x 44 mm (1U height)
LED	Power LNK/ACT (Green) 100/1000 (Green)
Reset Button	< 5 sec: System reboot > 10 sec: Factory Default
Weight	1.61 kg
Power Requirement	100~240V AC, 50-60 Hz, 0.5A
Power Consumption / Dissipation	19.6 Watts / 66.9BTU
<b>Smart Function</b>	
System Configuration	Web interface, SNMP v1
Port Configuration	Port speed duplex mode selection Flow control disable / enable Port disable / enable Port description on each port
Bandwidth Control	1 / 2 / 4 / 8 / 16 / 32 / 64Mbps
Broadcast Storm Control	5% / 10% / 25% / 50% / Disable
Port Statistics	Display detail Ethernet traffic counter information on each port
VLAN	- 32 IEEE 802.1Q VLAN groups - 26 Port-Based VLAN groups - MTU VLAN
Spanning Tree Protocol	- STP, IEEE 802.1D (Spanning Tree Protocol) - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
Link Aggregation	- 2 groups of 4-Port 10/100Base-TX trunk support, up to 800Mbps bandwidth per trunk - 1 group of 2-Port 10/100/1000Mbps trunk support, up to 2000Mbps bandwidth per trunk
Port Mirroring	Port mirroring allows monitoring of the traffic across any port in real time
QoS	Allows to assign low / high priority on each port First-In-First-Out, All-High-before-Low, Weight-Round-Robin QoS policy
Security	MAC Address TCP & UDP Filter
IGMP Snooping v1 / v2	Allows 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 802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet) IEEE 802.3x (Full-Duplex Flow Control) IEEE 802.1Q VLAN IEEE 802.1p QoS IEEE 802.1D (Spanning Tree Protocol) IEEE 802.1w (Rapid Spanning Tree Protocol)
<b>Environment</b>	
Temperature	Operating: 0~50 Degree C Storage: -10~70 Degree C
Humidity	Operating: 5~90%, Storage: 5~90% (Non-condensing)

**ORDERING INFORMATION**

<b>FGSW-2620CS</b>	24-Port 10/100Mbps + 2 Gigabit TP / SFP Combo Web Smart Switch
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**AVAILABLE MODULES FOR FGSW-2620CS**

<b>MGB-GT</b>	SFP-Port 1000Base-T mini-GBIC module
<b>MGB-SX</b>	SFP-Port 1000Base-SX mini-GBIC module - 550m
<b>MGB-LX</b>	SFP-Port 1000Base-LX mini-GBIC module - 10km
<b>MGB-L30</b>	SFP-Port 1000Base-LX mini-GBIC module - 30km
<b>MGB-L50</b>	SFP-Port 1000Base-LX mini-GBIC module - 50km
<b>MGB-L70</b>	SFP-Port 1000Base-LX mini-GBIC module - 70km
<b>MGB-L120</b>	SFP-Port 1000Base-LX mini-GBIC module - 120km
<b>MGB-LA10</b>	SFP-Port 1000Base-LX mini-GBIC module - LC WDM(TX:1310nm), SM,10km
<b>MGB-LB10</b>	SFP-Port 1000Base-LX mini-GBIC module - LC WDM(TX:1550nm), SM,10km
<b>MGB-LA20</b>	SFP-Port 1000Base-LX mini-GBIC module - LC WDM(TX:1310nm), SM,20km
<b>MGB-LB20</b>	SFP-Port 1000Base-LX mini-GBIC module - LC WDM(TX:1550nm), SM,20km
<b>MGB-LA40</b>	SFP-Port 1000Base-LX mini-GBIC module - LC WDM(TX:1310nm), SM,40km
<b>MGB-LB40</b>	SFP-Port 1000Base-LX mini-GBIC module - LC WDM(TX:1550nm), SM,40km