

Ethernet Switch



- **Advantage of PLANET's Solution**
- **Product Features**
- **Solutions**

- **Total Ethernet Switch Solution**
 - **From Fast Ethernet to Gigabit Ethernet Switches**
 - **From managed Web/ SNMP, Web Smart Switches to L2, L3 Switches**
- **High Scalability, support up to 384 nodes over one single IP**
- **Modular design for flexible network deployment**



**Multiple Layer 3
Managed Switch**

**Layer 2
Managed Switch**

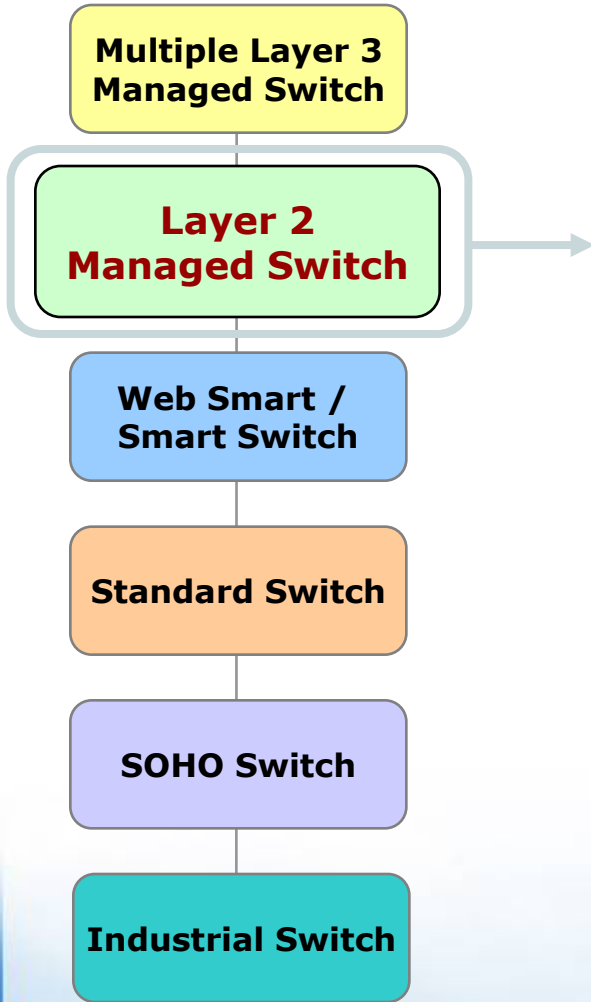
**Web Smart /
Smart Switch**

Standard Switch

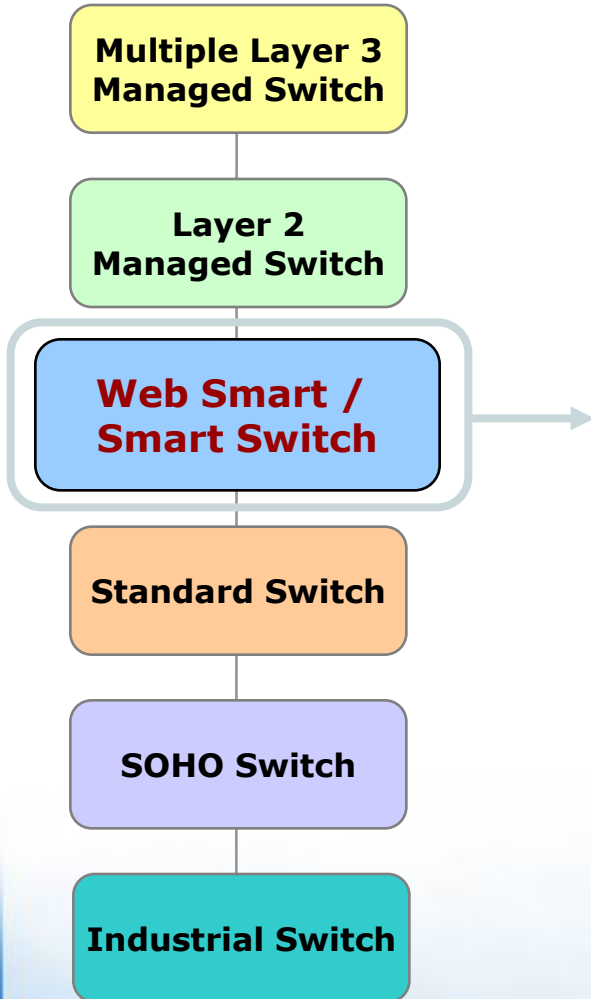
SOHO Switch

Industrial Switch

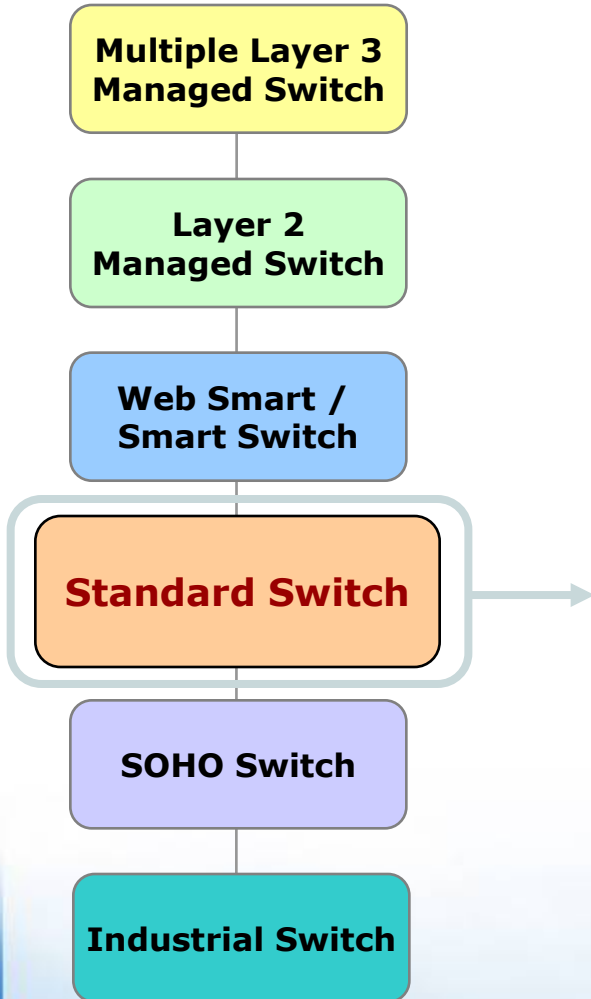
Model	Description	Application
WGS3-24000	24G L3	ISP/ Telco Core / Backbone L3 Switch
WGS3-2820	24 + 4G TP/2 SFP L3	Core / Backbone L3 Switch
WGS3-5220	48 + 4G TP/2 SFP L3	Core / Backbone L3 Switch
WGS3-2840	24 + 4G TP/SFP L3	Enterprise/ SMB Core L3 Switch



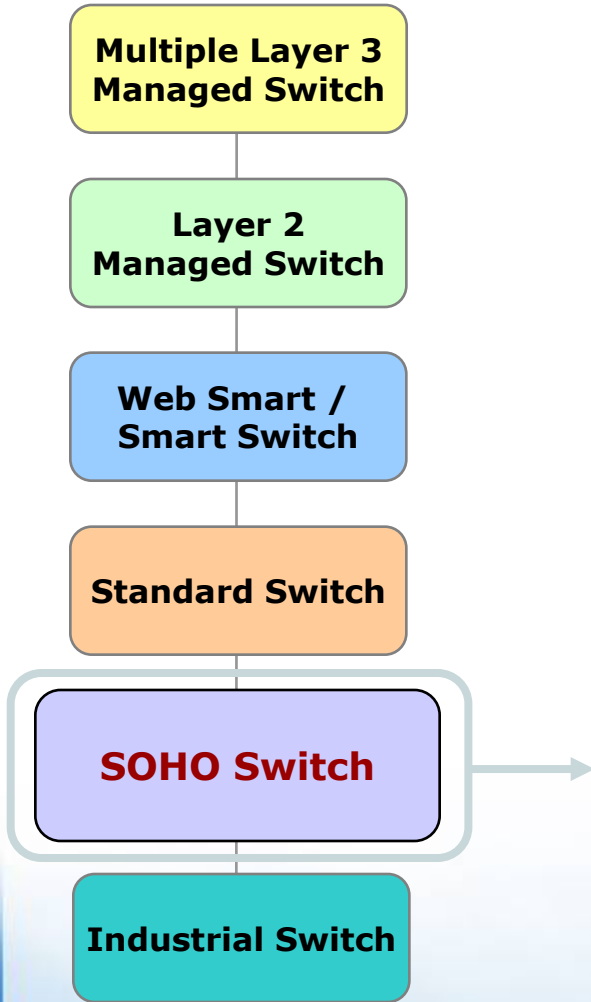
Model	Description	Application
WGSW-48040	48G Mgt.+ Security	Backbone
WGSW-24020	24G Mgt.+ Security	Backbone
WGSW-24010	24G Mgt.	Backbone
WGSW-24000	24G Mgt.+ Security	Backbone
WGSD-8000	8G Mgt. + Security	Backbone or Dept.
MGSW-004	Modular Fiber Optic Switch	Backbone or Dept.
WGSW-2620	24 + 2G / Security	Dept. Switch
WGSW-2620PV	24 + 2G / 24 PoE	Dept. Switch (For PoE devices like IP Phone, AP, IP Camera)
WGSW-2840	24 + 4G	Dept. Switch
WGSW-5240	48 + 4G	Dept. Switch
FGSW-2620VM	24+2G	Dept. or Workgroup
WGSD-1022	8 + 2G Mgt. + Security	Dept. Switch
WSD-800	8-Port Mgt.	Workgroup Switch
WSW-2401A	24-Port Mgt.	Workgroup Switch



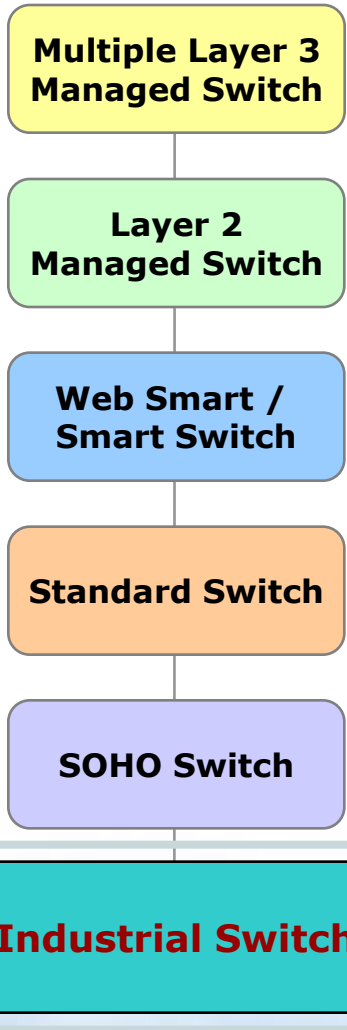
Model	Description	Application
GSW-2416SF GSW-2404SF GSW-1602SF	24/ 16G Web Smart / with 16/ 4/ 2 SFP	Backbone
GSD-802PS	8G Web Smart with 8 PoE	PoE Switch
GSD-802S	8G Web Smart with 2 SFP	Backbone
GSD-800S	8G Web Smart	Backbone
FGSW-4840S	48 + 4G Web Smart	Dept. Switch
FGSW-2624SF	24 100Base SFP +2G Web Smart	Dept. Switch
FGSW-2402VS / FGSW-2620VSF	24 + 2G Web Smart + Security	Dept. Switch
FGSW-1820CS FGSW-2620CS	16/ 24 + 2G Web Smart	Dept. Switch
FNSW-2401CS	24-Port Web Smart	Dept. Switch
FGSW-2620PVS/ FGSW-2612PVS	24 + 2G Web Smart + Security with 24/ 12 PoE	Dept. Switch
FNSW-1608PS	16-Port Web Smart with 8 PoE	Workgroup Switch
FSD-804PS	8-Port Web Smart with 4 PoE	Workgroup Switch
FSD-624SF	4-Port POF + 2G Web Smart	Workgroup Switch



Model	Description	Application
GSW-2401	24G	Backbone
GSW-1601	16G	Backbone
GSD-800	8G	Backbone
FGSW-2620	24 + 2G	Dept. Switch
FNSW-1601 FNSW-2401 FNSW-4800	16/ 24/ 48-Port	Workgroup
FSD-804P	8-Port with 4-Port PoE injector built-in	Workgroup
FSD-1605 FSD-2405	16/ 24-Port	Workgroup / Desktop



Model	Description	Application
GSD-803 / 804	8G, Metal / Plastic	Backbone
GSD-503 / 504	5G, Metal / Plastic	Backbone
FSD-1600/1601Sxx	10-inch 16-Port	Department
FSD-800/801Sxx	10-inch 8-Port	Workgroup
FSD-1603	16-Port, Metal	Workgroup
FSD-803PE/ FSD-504PE	8/5-Port, Plastic with PoE splitter built-in	Workgroup
SW-801 / SW-802 FSD-803	8-Port, Plastic / Metal	Workgroup
SW-501 / SW-502 FSD-503	5-Port, Plastic / Metal	Workgroup



Model	Description	Application
ISW-500	5-Port	Entry node for industrial
ISW-800	8-Port	Entry node for industrial
ISW-800M	8-Port with management	Back link with fast ring support
ISW-802M	8-Port mgt. with 2 FX Fast fail-over redundancy	Fiber back link with ring support
IFT-802/802S30	TP/FX Industrial Converter (Multi-Mode/Single Mode)	Fiber extension for tough environment

Features

Layer 3 Managed Switch



Item \ Model		Backbone Switch	Department Switch		
		WGS3-24000	WGS3-2820	WGS3-5220	WGS3-2840
Description		24G L3	24 + 4G L3	48 + 4G L3	24 + 4G L3
Ports	10/100TX	-	24	48	24
	10/100/1000T	24	4	4	4
	Mini-GBIC	4(Shared)	2 (Shared)	2 (Shared)	4 (Shared)
Switch Fabric Bandwidth		48G	12.8G	17.6G	12.8G

24-Port L3 Gigabit Backbone Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p four priority / 802.1Q VLAN
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1x port-based authentication
 - 802.1D, 802.1w, **802.1s** classic Spanning Tree Algorithm, Rapid or multiple Spanning Tree support
- **Double Tagged VLAN (Q-in-Q)**
- **Up to 4K VLAN groups**
- 4 SFP mini-GBIC interfaces
- Wire-speed Layer 3 IP routing, **RIP1/2, OSPF**
- Routing interface provides **Per-Port routing** and **VLAN routing** mode
- Multicast Routing Protocol: **IGMP, DVMRP, PIM-DM/SM**
- **VRRP** protocol for redundant routing deploy
- **Policy-Based DiffServ** QoS, classified by TCP/UDP, IP Address, VLAN and DSCP/TOS
- **SNMP v1, v2c, and v3** switch management
- **SSH** and **SSL** security management
- **Access Control List** and **Port-Security** for Network security control



WGS3-24000

24 + 4G L3 managed Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p four priority / 802.1Q VLAN
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1x port-based authentication
 - 802.1D, 802.1w, **802.1s** classic Spanning Tree Algorithm, Rapid or multiple Spanning Tree support
- **Double Tagged VLAN (Q-in-Q)**
- **Up to 4K VLAN groups**
- 4-Port Gigabit / 2 Shared SFP mini-GBIC interfaces
- Wire-speed Layer 3 IP routing, **RIP1/2, OSPF**
- Routing interface provides **Per-Port routing** and **VLAN routing** mode
- Multicast Routing Protocol: **IGMP, DVMRP, PIM-DM/SM**
- **VRRP** protocol for redundant routing deploy
- **Policy-Based DiffServ** QoS, classified by TCP/UDP, IP Address, VLAN and DSCP/TOS
- **SNMP v1, v2c, and v3** switch management
- **SSH** and **SSL** security management
- **Access Control List** and **Port-Security** for Network security control



WGS3-2820

48 + 4G L3 Managed Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p four priority / 802.1Q VLAN
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1x port-based authentication
 - 802.1D, 802.1w, **802.1s** classic Spanning Tree Algorithm, Rapid or multiple Spanning Tree support
- **Double Tagged VLAN (Q-in-Q)**
- **Up to 4K VLAN groups**
- 4-Port Gigabit / 2 Shared SFP mini-GBIC interfaces
- Wire-speed Layer 3 IP routing, **RIP1/2, OSPF**
- Routing interface provides **Per-Port routing** and **VLAN routing** mode
- Multicast Routing Protocol: **IGMP, DVMRP, PIM-DM/SM**
- **VRRP** protocol for redundant routing deploy
- **Policy-Based DiffServ** QoS, classified by TCP/UDP, IP Address, VLAN and DSCP/TOS
- **SNMP v1, v2c, and v3** switch management
- **SSH** and **SSL** security management
- **Access Control List** and **Port-Security** for Network security control



WGS3-5220

24 + 4G L3 Intelligent Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x flow control and backpressure for half duplex operation
 - 802.1p dual priority with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - Port mirroring support
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- **4 Gigabit TP/SFP Mini-GBIC Combo interfaces**
- **8K MAC address table, automatic source address**
- **Port Priority provides strict priority, CoS polices and 802.1p priority**
- **IGMP snooping and DHCP client support**
- **Wire-speed Layer 3 IP routing, RIP1/2, OSPF**
- **Access Control List for Network security control**

Department **Managed** **IP L3**



WGS3-2840

Features

Layer 2 Managed Switch



Features L2 Managed Switch

ACTIVATING IP POWER

Model		Backbone Switch				
		WGSW-48040	WGSW-24020	WGSW-24010	WGSW-24000	MGSW-004
Description		48G Mgt.	24G Mgt. / Security	24G Mgt.	24G Mgt. / Security	Modular Fiber Optic Switch
Ports	10/100/1000T	48	24	24	24	1 (Optional)
	Mini-GBIC	4	2	1	2	-
Module Slots		-	-	-	-	4 (up to 16 100Base-FX fiber optic / SC)
Switch Fabric Bandwidth		96G	48G	48G	48G	16G

Model		Department Switch						
		WGSW-2620	WGSW-2620PV	WGSW-2840	WGSW-5240	WGSD-8000	WGSD-1022	FGSW-2620VM
Description		24 + 2G / Security	24 + 2G / 24 PoE	24 + 4G Mgt. / Stackable	48 + 4G Mgt. / Stackable	8G Mgt.	8 + 2G Mgt.	24 + 4G Mgt.
Ports	10/100TX	24	24	24	48	-	8	24
	10/100/1000T	2	2	4	4	8	2	2
	Mini-GBIC	2	2	4	4	2	2	2
Switch Fabric Bandwidth		8.8G	8.8G	12.8G	17.6G	16G	5.6G	8.8G

Features **L2 Managed Switch**

Item \ Model		Workgroup Switch	
		WSD-800	WSW-2401A
Description		8-Port Mgt. / Stackable	24-Port Mgt. / Stackable
Ports	10/100TX	8	24
	10/100/1000T	-	-
	Mini-GBIC	-	-
Module Slots		-	1
Switch Fabric Bandwidth		1.6G	5.0G

48-Port L2 Managed Gigabit Ethernet Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p **four priority queue**
 - **802.1Q VLAN Tagging, up to 256 VLANs**
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1D, 802.1w, **802.1s** classic Spanning Tree Algorithm, Rapid or multiple Spanning Tree support
- **Auto MDI/MDI-X, VCT (Virtual Cable Test) Support**
- **4 SFP Mini-GBIC interface for 1000Base-SX/LX fiber-optic with connection varied by media and extension distance**
- **GVRP** protocol for dynamic VLAN Management
- **IGMP Snooping and Broadcast Storm control support**
- **CoS, DiffSrv priority, WRR (weighted round robin) support**
- **SNMP V1/V2/V3, RMON Group 1, 2, 3, 9 support**
- **MAC/IP Access Control List and Port-Security for Network Security control**



WGSW-48040

24-Port L2 Managed Gigabit Ethernet Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p **four priority queue**
 - **802.1Q VLAN Tagging, up to 256 VLANs**
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1D, 802.1w **802.1s** classic Spanning Tree Algorithm, Rapid or multiple Spanning Tree support
- **Auto MDI/MDI-X, VCT (Virtual Cable Test) Support**
- **2 SFP Mini-GBIC interface for 1000Base-SX/LX fiber-optic with connection varied by media and extension distance**
- **GVRP** protocol for dynamic VLAN Management
- **IGMP Snooping and Broadcast Storm control support**
- **CoS, DiffSrv priority, WRR (weighted round robin) support**
- **SNMP V1/V2/V3, RMON Group 1, 2, 3, 9 support**
- **MAC/IP Access Control List and Port-Security for Network Security control**

Backbone

Managed

Security



WGSW-24020

24-Port L2 Managed Gigabit Ethernet Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p **four priority queue**
 - **802.1Q VLAN Tagging, up to 256 VLANs**
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- **Auto MDI/MDI-X, VCT (Virtual Cable Test) Support**
- **1 SFP Mini-GBIC interface for 1000Base-SX/LX fiber-optic with connection varied by media and extension distance**
- **IGMP Snooping and Broadcast Storm control support**
- **CoS, DiffSrv priority, WRR (weighted round robin) support**
- **SNMP V1/V2, RMON Group 1, 2, 3, 9 support**

Backbone

Managed

Security



WGSW-24010

24-Port L2 Gigabit Intelligent Security Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p **four priority**
 - **802.1Q VLAN**
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- **2 SFP Mini-GBIC interfaces**
- **8K MAC address table, automatic source address**
- **Port Priority provides strict priority, weighted Round-Robin CoS polices and 802.1p priority**
- **9K Jumbo frame support**
- **IP stacking, single IP management**
- **IGMP snooping and DHCP client support**
- **SSL, SSH Access Security, port rate limit, L2/3/4 (ACL) Access Control List**

Backbone

Managed

Security



WGSW-24000

10/100/1000Mbps Managed Modular Switch

- **4-open slots for available modules**
- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control
 - 802.1p **dual priority**
 - **802.1Q VLAN tagging support**
 - 802.1D Spanning Tree Algorithm support
- **High performance Store-and-Forward architecture**
- **Up to 12Gbps switching backplane**
- **4K-entry MAC address table auto learning /aging**
- **Per TP port Auto-MDI/ MDI-X detection**
- **Port Trunking and Port Mirroring support**
- **IGMP snooping support**
- **Static Address Table for manual address addition**
- **Broadcast Storm Filter function support**

Backbone/
Department

Managed

Modular



MGSW-004

Available Module:

- **MGSW-1GT**
1-Port Gigabit TP
- **MGSW-1SX / 1LX**
1-Port 1000Base-SX/LX. SC
- **MGSW-8TP**
8-Port 10/100Base-TX
- **MGSW-4SC/ ST**
4-Port 100Base-FX SC/ST

12-Port 100FX + 1-Gigabit Ethernet **16-Port 100FX Fast Ethernet** **Managed Fiber Switch**

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab
 - 802.3x PAUSE frame flow control (full-duplex)
 - 802.1Q Tagged VLAN
 - 802.1p Class of Service, dual priority
 - 802.1D Spanning Tree Algorithm support
- **12/16-Port 100Base-FX SC fiber-optic interfaces**
- **1-Port 10/100/1000Base-T Copper interface (Model: 12F)**
- **4.8Gbps switching fabric, Store-and-Forward architecture, wire-speed filtering and forwarding rates**
- **Support 4K absolute MAC addresses, Automatic address learning and address aging**
- **Port Trunking and Port Mirroring support**
- **IGMP snooping support**
- **Static Address Table for manual address addition**
- **Broadcast Storm Filter function support**

**Backbone/
Department**

Managed

Modular



MGSW-004-12F
(12-Port 100FX + 1 Gigabit Ethernet)



MGSW-004-16F
(16-Port 100FX Fast Ethernet)

24 + 2G Intelligent Security Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x flow control and backpressure for half duplex operation
 - 802.1p dual priority with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- **2 SFP Mini-GBIC interfaces**
- 8K MAC address table, automatic source address
- Port Priority provides strict priority, CoS polices and 802.1p priority
- **9K Jumbo frame support**
- IP stacking, single IP management
- IGMP snooping and DHCP client support
- Mbps-based Rate Limiting
- **SSL, SSH** Access Security, port rate limit, L2/3/4 (**ACL**) Access Control List

Department **Managed** **Stackable**



WGSW-2620

24 + 2G Intelligent PoE Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z, 802.3af
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p dual priority with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, port mirroring support
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- **2-Port SFP Mini-GBIC interface**
- **24-Port 10/100Mbps interface support 802.3af Power over Ethernet**
- **Redundant 400watts power / UPS support**
- **Mbps-based Rate control, MAC binding**
- **SNMP, MIB II, RMON group 1.2.3.9**
- **IGMP, DHCP client support**



WGSW-2620PV

24 + 4G Intelligent Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, 12 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- 4-Port SFP Mini-GBIC interface for fiber extension
- Web/Console/Telnet/SNMP management
- Configuration backup & recovery
- Per port 64Kbps~8Mbps Ingress/Egress bandwidth Restricting
- Traffic Classification and Prioritization, based on 802.1p/ports/MAC address
- 4 Priority queues, support strict priority/Weighted Round Robin
- Support IGMP Snooping v1, v2 for multicast
- MAC address binding/filtering/learning, configurable aging time
- Broadcast, Multicast and DLF storm control
- Stack up to 8 units and manageable by single IP
- SNMP v1, v2c, MIB II, RMON group 1.2.3.9

Department Managed



WGSW-2840

(24 Fast Ethernet ports + 4 Gigabit ports)

48 + 4G Intelligent Stackable Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, 12 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- 4-Port SFP Mini-GBIC interface
- Web/Console/Telnet/SNMP management
- Configuration backup & recovery
- Per port 64Kbps~8Mbps Ingress/Egress bandwidth Restricting
- Traffic Classification and Prioritization, based on 802.1p/ports/MAC address
- 4 Priority queues, support strict priority/Weighted Round Robin
- Support IGMP Snooping v1, v2 for multicast
- MAC address binding/filtering/learning, configurable aging time
- Broadcast, Multicast and DLF storm control
- Stack up to 8 units and manageable by single IP
- SNMP v1, v2c, MIB II, RMON group 1.2.3.9



WGSW-5240

(48 Fast Ethernet ports + 4 Gigabit ports)

24 + 2G Intelligent Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities with Weight Round Robins
 - 802.1Q VLAN, up to 26 VLANs
 - 802.3ad LACP Link aggregation, 12 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1w Rapid Spanning Tree support
- **2-Port SFP Mini-GBIC interface for fiber extension**
- Web/SNMP trap management
- Configuration backup & recovery
- Traffic Classification and Prioritization, based on 802.1p/ports
- 4 Priority queues, support strict priority/Weighted Round Robin
- Support IGMP Snooping v1, v2 for multicast
- MAC address binding/filtering, configurable aging time
- Broadcast, Multicast storm control
- Access Control List for Network Security control



FGSW-2620VM

Features **WGSD-8000** **WGSD-1022**

ACTIVATING IP POWER

8G Intelligent Switch with 2 Shared SFP port WGSD-8000
8-Port Intelligent Switch with 2-combo Gigabit port WGSD-1022

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab and 802.3z
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, 4 aggregation groups, per group up to 4 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w, 802.1s classic Spanning Tree Algorithm, Rapid Spanning Tree or Multiple Spanning Tree support
- **Desktop Size / Rack Mountable**
- **2-Port SFP Mini-GBIC interface**
- Web/Console/Telnet/SNMP management
- Traffic Classification and Prioritization, based on 802.1p/ports/ MAC address
- 4 Priority queues, support strict priority/Weighted Round Robin
- Support IGMP Snooping v1, v2 for multicast
- MAC address binding/filtering/learning, configurable aging time
- Broadcast, Multicast and DLF storm control
- SNMP v1, v2c, V3 MIB II, RMON group 1.2.3.9
- Access Control List for Network Security control
- **SSL, SSH** Access Security

Department **Managed**



WGSD-8000
(8G Intelligent Switch with 2 Shared SFP port)



WGSD-1022
(8 Fast Ethernet ports)

8-Port Intelligent Switch

- IEEE standard compliant:
 - 802.3, 802.3u
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, 4 aggregation groups, per group up to 4 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- Web/Console/Telnet/SNMP management
- Configuration backup & recovery
- Per port 64Kbps~80Mbps Ingress/Egress bandwidth Restricting
- Traffic Classification and Prioritization, based on 802.1p/ports/MAC address
- 4 Priority queues, support strict priority/Weighted Round Robin
- Support IGMP Snooping v1, v2 for multicast
- MAC address binding/filtering/learning, configurable aging time
- Broadcast, Multicast and DLF storm control
- Multi-Language, Stack up to 8 units and manageable by single IP
- SNMP v1, v2c, MIB II, RMON group 1.2.3.9

Workgroup

Managed



WSD-800

(8 Fast Ethernet ports)

24 + 1 Fiber Intelligent Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities with Weight Round Robins
 - 802.1Q VLAN, up to 256 VLANs
 - 802.3ad LACP Link aggregation, 12 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w classic Spanning Tree Algorithm or Rapid Spanning Tree support
- 1-Port 100Base Fiber Slot interface for fiber extension
- Web/Console/Telnet/SNMP management
- Configuration backup & recovery
- Per port 64Kbps~80Mbps Ingress/Egress bandwidth Restricting
- Traffic Classification and Prioritization, based on 802.1p/ports/MAC address
- 4 Priority queues, support strict priority/Weighted Round Robin
- Support IGMP Snooping v1, v2 for multicast
- MAC address binding/filtering/learning, configurable aging time
- Broadcast, Multicast and DLF storm control
- SNMP v1, v2c, MIB II, RMON group 1.2.3.9
- Multi-Language, Stack up to 8 units and manageable by single IP

Workgroup

Managed



WSW-2401A

**(24 Fast Ethernet ports +
1 100Base Fiber)**

Features

Web Smart / Smart Switch



Features

Web Smart/Smart Switch

ACTIVATING IP POWER

Model		Backbone Switch					
		GSW-2416SF	GSW-2404SF	GSW-1602SF	GSD-802PS	GSD-802S	GSD-800S
Description		24G (w/ 16 SFP) Web Smart	24G (w/ 4 SFP) Web Smart	16G (w/ 2 SFP) Web Smart	8G Web Smart w/ PoE	8G (w/ 2 SFP) Web Smart	8G Web Smart
Ports	10/100/1000T	24	24	16	8	8	8
	Mini-GBIC	16	4	2	2	2	-
Switch Fabric Bandwidth		48G	48G	32G	16G	16G	16G

Model		Department Switch					
		FGSW-4840S	FGSW-2624SF	FGSW-2402VS FGSW-2620VSF	FGSW-1820CS FGSW-2620CS	FNSW-2401CS	FGSW-2620PVS FGSW-2612PVS
Description		48 + 4G Web Smart	24FX + 2G Web Smart	24 + 2G Web Smart	16/24 + 2G Web Smart	24 + 1FX Web Smart	24 + 2G Web Smart w/PoE
Ports	10/100TX	48	24	24	16 / 24	24	24 (w 24/12 PoE)
	10/100/1000T	2	2	- / 2	2	-	2
	Mini-GBIC	2	2 (shared)	- / 2 (shared)	2	-	2(shared)
Module Slots		2	-	2 / -	-	1	-
Switch Fabric Bandwidth		17.6G	8.8G	8.8G	8.8G	5G	8.8G

Features

Web Smart/Smart Switch

Item		Model	Workgroup Switch		
			FSD-624SF	FNSW-1608PS	FSD-804PS
Description			4-Port POF + 2G Web Smart	16-Port Web Smart w/PoE	8-Port Web Smart w/PoE
Ports	10/100TX		4 x POF	16 (w 8 PoE)	8 (w 4 PoE)
	10/100/1000T		1	-	-
	Mini-GBIC		1 (Optional)	-	-
Switch Fabric Bandwidth			4.8G	3.8G	1.6G

24-Port Gigabit Ethernet Web-Smart Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab and 802.3z
 - 802.3x full-duplex flow control and backpressure for half duplex operation
 - 802.1p 4 priorities
 - 802.1Q VLAN, up 64 VLANs
 - 802.3ad LACP Link aggregation 8 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w, classic Spanning Tree Algorithm, Rapid Spanning Tree support
- **High performance Store-and-Forward architecture, broadcast storm control, runt/CRC filtering**
- **16-SFP for Gigabit Fiber-optic connection**
- **8K MAC address table, automatic source address learning and ageing**
- **Support Port-based VLAN groups or 802.1q VLAN**
- **Support LACP port trunking, port mirroring and rate limiting**
- **Support 802.1p QoS, IGMP snooping**
- **IP Filter and Static MAC for security**
- **9k Jumbo frame**
- **Firmware upgrade, IP setting through Web management utility**
- **SNMP Monitor and trap management**



GSW-2416SF

10/100/1000Mbps Web Smart Backbone Switches

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab and 802.3z
 - 802.3x full-duplex flow control
 - 802.1p Class of Service
 - 802.1Q VLAN, up to 64 VLANs
 - 802.3ad LACP Link aggregation 8 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w, classic Spanning Tree Algorithm, Rapid Spanning Tree support
- High performance Store-and-Forward architecture, broadcast storm control, runt/CRC filtering
- **4/2-SFP** for Gigabit Fiber-optic connection
- 8K MAC address table, automatic source address learning and ageing
- Support Port-based VLAN groups or 802.1q VLAN
- Support LACP port trunking, port mirroring and rate limiting
- Support 802.1p QoS, IGMP snooping v1/v2
- **9k Jumbo frame**
- Firmware upgrade, IP setting through Web management utility
- SNMP Monitor and trap management

Backbone**Web Smart****GWSW-2404SF****(24 Gigabit ports Smart Backbone)****GWSW-1602SF****(16 Gigabit ports Smart Backbone)**

10/100/1000Mbps Web Smart Backbone Switches

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab and 802.3z
 - 802.3x full-duplex flow control
 - 802.1p 4 priorities
 - 802.1Q VLAN, up to 64 VLANs
 - 802.3ad LACP Link aggregation 4 aggregation groups, per group up to 8 ports
 - 802.1x port-based authentication
 - 802.1D, 802.1w, classic Spanning Tree Algorithm, Rapid Spanning Tree support
- High performance Store-and-Forward architecture, broadcast storm control, runt/CRC filtering
- **2-SFP** for Gigabit Fiber-optic connection (GSD-802S)
- 8K MAC address table, automatic source address learning and ageing
- Support Port-based VLAN groups or 802.1q VLAN
- Support LACP port trunking, port mirroring and rate limiting
- Support 802.1p QoS, IGMP snooping v1/v2
- **9k Jumbo frame**
- Firmware upgrade, IP setting through Web management utility
- SNMP Monitor and trap management

Backbone **Web Smart** **Desktop**



GSD-800S
(8 Gigabit ports Web Smart)



GSD-802S
8 Gigabit ports with 2 SFP Web Smart

48-10/100Mbps + 4G Ethernet Web Smart Switch

- **2 SFP Mini-GBIC interface**
- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x PAUSE frame flow control (full-duplex)
 - 802.1Q Tagged VLAN
- Store-and-Forward architecture
- Broadcast storm control & Runt/CRC filtering
- 8K MAC addresses
- System log, view trap, firmware upgrade, IP setting through Web management utility
- **Port-based/802.1Q VLAN, Trunk, QoS support**
- Port mirroring and rate limiting
- Backup and restore current configuration

Department

Web Smart



FGSW-4840S

24-Port 100FX + 2-Gigabit Ethernet Web Smart Switch

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x PAUSE frame flow control (full-duplex)
 - 802.1Q Tagged VLAN
 - 802.1p Class of Service
- 8.8Gbps switching fabric, Store-and-Forward architecture, wire-speed filtering and forwarding rates
- 2 Gigabit interfaces with module support for Gigabit TP, SFP, SX/LX, LX WDM
- 24 SFP (small form factor pluggable) interface for 100Base-FX LC fiber-optic module
- Support 8K absolute MAC addresses, Automatic address learning and address aging
- **Port-based/802.1Q VLAN, Trunk, port mirroring, QoS support**
- **Rate control per port for TX bandwidth control**
- Access Control List for Network Security control

Department

Web Smart



FGSW-2624SF

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

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x PAUSE frame flow control (full-duplex)
 - 802.1Q Tagged VLAN
 - 802.1p Class of Service
- 8.8Gbps switching fabric, Store-and-Forward architecture, wire-speed filtering and forwarding rates
- 2 Gigabit interfaces with module support for Gigabit TP, SFP, SX/LX, LX WDM , and Fast Ethernet TP, FX (FGSW-2402VS)
- Support 8K absolute MAC addresses, Automatic address learning and address aging
- **Port-based/802.1Q VLAN, Trunk, port mirroring, QoS support**
- **Rate control per port for TX/RX bandwidth control**
- Support Auto MDI/MDI-X function
- Access Control List for Network Security control

Department

Web Smart

FGSW-2620VSF



FGSW-2402VS

(2 Gigabit interface with module support)



Available Module:

- **MII-GT / MII-SFP**
1-Port Gigabit TP / TP + SFP
- **MII-SX/LX**
1-Port 1000Base-SX/LX, SC
- **MII-LA15 / LB15**
1-Port 1000Base-LX, WDM (Bidi) SC 15km
- **MII-SC/ ST/ SA20/ SB20**
1-Port 100Base-FX SC/ST / WDM (Bidi) 20km

16/24-Port + 2-Gigabit Ethernet Web Smart Department Switches

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x flow control
 - 802.1Q Tagged VLAN
- 7.2G/8.8Gbps switching fabric, Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half / full-duplex, flow control and auto-negotiation
- 2 Gigabit interfaces with module support for Gigabit TP, SFP, SX/LX, LX WDM
- Integrated address look-up engine, support 4K absolute MAC addresses.
- **Port-based/802.1Q VLAN, Trunk, Port Mirroring support**
- **Rate control per port for TX/RX bandwidth control**
- Support 802.1p QoS, IGMP snooping
- Automatic address learning and address aging
- Supports Auto MDI/MDI-X function



FGSW-1820CS



FGSW-2620CS

24-10/100Mbps + 1-Slot Web Smart Switch

- **1-Port 100Base Fiber Slot interface for fiber extension**
- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x PAUSE frame flow control (full-duplex)
- Store-and-Forward architecture
- Broadcast storm control & Runt/CRC filtering
- 4K MAC addresses
- Firmware upgrade, IP setting through Web management utility
- **Port-based VLAN, Trunk, QoS support**
- Backup and restore current configuration



FNSW-2401CS

24-Port 10/100Mbps + 2-Gigabit Web Smart Ethernet Switch (w 24/12 PoE)

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab
 - 802.3af Power over Ethernet
 - 802.1p Class of Service
 - 802.1Q Tagged VLAN
- 24 ports 10/100Mbps with 48V DC power over Ethernet (FGSW-2612PVS with 12 PoE)
- Store-and-Forward architecture
- 260/130 watts sufficient power for 24/12 IP phones or POE devices
- Support up to 26 port-based/802.1Q VLAN groups and up to 7 Trunk groups, each trunk for up to maximum 4 port with 800Mbps bandwidth
- Port mirroring support, QoS and rate control on each port
- Power feeding setup like disable/enable/priority, power usage like current, watts information through management interface
- Access Control List for Network Security control



FGSW-2620PVS



FGSW-2612PVS

4-Port POF + 2-Gigabit Web Smart Ethernet Switch

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x flow control for full duplex operation and backpressure for half duplex operation
 - 802.1Q Tagged VLAN
- 4.8Gbps switching fabric, Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half / full-duplex, flow control and auto-negotiation
- **2 Gigabit interfaces with module support for Gigabit TP, SFP, SX/LX, LX WDM**
- Integrated address look-up engine, support 4K absolute MAC addresses.
- **Port-based/802.1Q VLAN, Trunk, Port Mirroring support**
- Support 802.1p QoS, IGMP snooping
- **Rate control per port for TX/RX bandwidth control**
- Automatic address learning and address aging
- Supports Auto MDI/MDI-X function on TP port

Workgroup

Web Smart

POF



FSD-624SF

16/8-Port Fast Ethernet Switches with 8/4-Port 802.3af injector built-in

- 16/8-Port 10/100/1000Mbps RJ-45 ports, auto-MDI, auto-negotiation
- 3.2/1.6G non-blocking switch fabric
- Port #1 to #8/#4 with 802.3af injector built-in
- Support 48VDC, 15.4 watts PoE power output to 4 IEEE802.3af compliant Powered Devices
- Up to 2K MAC address table and high performance Store-and-Forward architecture
- Port-Based/802.1Q VLAN, Trunk, Port Priority supports
- LED indicators for easy network diagnostic
- Power feeding setup like disable/enable/priority, power usage like current, watts information through management interface

Workgroup

Web Smart

PoE



FNSW-1608PS



FSD-804PS

8-Port VDSL2 + 1-Gigabit Ethernet **24-Port VDSL2 + 2-Gigabit Ethernet** **Web Smart CO Switches**

- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x flow control
 - 802.1Q Tagged VLAN
 - 802.1p Class of Service
- **DSL standard:**
 - ITU-T G.993.1 (VDSL)
 - ITU-T G.997.1
 - ITU-T G.993.2 VDSL2 (Profile 12a Support), Annex A
- **8/20 full-duplex VDSL links via spring terminal block connectors**
- **8 corresponding POTS/ISDN lines via spring terminal block connectors**
- **1-Port Gigabit TP/SFP combo interface for uplink, support for distance extension up to 120km**
- **Support 4K absolute MAC addresses; Automatic address learning and address aging**
- **Port-based/802.1Q VLAN, Trunk**
- **Rate control per port for TX/RX bandwidth control**
- **Support 802.1p QoS, IGMP snooping**

Features

Standard Switch

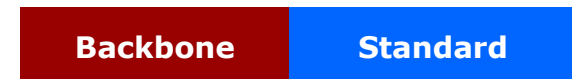


Model		Backbone Switch		
		GSW-2401	GSW-1601	GSD-800
Description		24G	16G	8G
Ports	10/100T	-	-	-
	10/100/1000T	24	16	8
Switch Fabric Bandwidth		48G	32G	16G

Model		Department Switch	Workgroup Switch	Desktop
		FGSW-2620	FNSW-1601/2401/4800	FSD-1605/2405
Description		24 + 2G	16/24/48-Port	16/24-Port
Ports	10/100TX	24	16/24/48	16/24
	10/100/1000T	2	-	-
Switch Fabric Bandwidth		8.8G	3.2 / 4.8 / 8.8G	7.2G/ 8.8G

10/100/1000Mbps Gigabit Backbone Switches

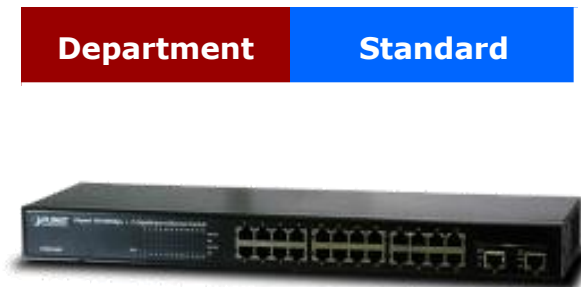
- **IEEE standard compliant:**
 - 802.3, 802.3u, 802.3ab
 - 802.3x PAUSE frame flow control
- **16/24-Port 10/100/1000Mbps RJ-45 ports**
- **4K/8K MAC address table**
- **32Gbps/48Gbps switch fabric**
- **Store-and-Forward switch architecture**



GSW-2401

24-Port 10/100 + 2-Gigabit Ethernet Department Switches

- IEEE standard compliant:
 - 802.3, 802.3u, 802.3ab, 802.3z
 - 802.3x full duplex flow control
- Features 8.8Gbps switching fabric, Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half/ full-duplex flow control and auto-negotiation
- 4K MAC address table
- Supports Auto MDI/MDI-X function



FGSW-2620 (24+ 2GT)

16/24/48-Port Fast Ethernet Workgroup Switch

- IEEE standard compliant:
 - 802.3, 802.3u
 - 802.3x full duplex flow control
- Features 3.2/4.8/8.8Gbps switching fabric, Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half/ full-duplex flow control and auto-negotiation
- 8/4K MAC addresses table
- Supports Auto MDI/MDI-X function

Workgroup

Standard



FNSW-1601



FNSW-2401



FNSW-4800

16/24-Port Fast Ethernet Desktop Switch

- IEEE standard compliant:
 - 802.3, 802.3u
 - 802.3x full duplex flow control
- Features 3.2/4.8 Gbps switching fabric, Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware-based 10/100Mbps, half/ full-duplex flow control and auto-negotiation
- 8K MAC addresses table
- Supports Auto MDI/MDI-X function
- FAN less

Desktop

Standard



FSD-1605



FSD-2405

Features

SOHO Switch



8-Port Gigabit Ethernet Backbone Switches

- **8-Port 10/100/1000Mbps RJ-45 ports**
- **16G non-blocking switch fabric**
- **8K MAC address table**
- **High performance Store-and-Forward architecture**
- **9K Jumbo frame support**
- **1U 10-inch or 19-inch rack mountable**
- **Metal / FAN Less Design**

Backbone

SOHO

10/19-inch



GSD-800

5/8-Port Gigabit Ethernet Backbone Switches

- **5/8-Port 10/100/1000Mbps RJ-45 ports**
- **10G/16G non-blocking switch fabric**
- **GSD-503 / 803 Metal housing**
- **GSD-504 / 804 Plastic housing**
- **8K MAC address table**
- **High performance Store-and-Forward architecture**
- **9K Jumbo Frame support**
- **Palm size design**

Backbone

SOHO

Desktop



GSD-503/803



GSD-504/804

Features

FSD-800/1600

FSD-801Sxx/1601Sxx



ACTIVATING IP POWER

8/16-Port Fast Ethernet Switches

- **8/16-Port 10/100/1000Mbps RJ-45 ports, auto-MDI, auto-negotiation**
- **1.6G/3.2G non-blocking switch fabric**
- **Model FSD-801Sxx/1601Sxx (SC/ST/S15) is equipped with one 100Base-FX port for long-distance connection**
- **Up to 1K/8K MAC address table and high performance Store-and-Forward architecture**
- **1U 10-inch or 19-inch rack mountable with universal internal power supply**

Workgroup

SOHO

10/19-inch



FSD-1601 (ST)

5/8-Port Fast Ethernet Switches with built-in 802.3af splitter

- **5/8-Port 10/100/1000Mbps RJ-45 ports, auto-MDI, auto-negotiation**
- **1G/1.6G non-blocking switch fabric**
- **Port #1 with 802.3af splitter built-in**
- **Dual power system, either from external AC adapter or from remote 802.3af power over Ethernet**
- **Up to 2K MAC address table and high performance Store-and-Forward architecture**
- **5-Port plastic housing (FSD-504PE) / 8-Port metal housing (FSD-803PE)**

Workgroup

SOHO

802.3af



FSD-803PE



FSD-504PE

Features

Industrial Switch



5/8-Port Entry Level Industrial Switch

Hardware Feature

- Comply with IEEE 802.3, IEEE 802.3u
- CSMA/CD Protocol
- RJ-45 Port support auto MDI/MDI-X function
- Wide-range redundant power design
- Store and forward switch architecture
- DIN rail and 3-way wall mount design

Industrial Conformance

- 12~48V DC, redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- 0 to 60 Degree C operation temperature
- IP-30 Aluminum case
- EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6
- UL, cUL, CE/EN60950 safety
- Stability testing with IEC60068-2-32(Free fall), IEC60068-2-27(Shock) and IEC60068-2-6(Vibration)

Industrial

IP30

Din Rail

**ISW-500/800****(5/8 Fast Ethernet ports)**

Managed Industrial Ethernet Switch

A. Hardware Feature

- Comply with IEEE 802.3, IEEE 802.3u
- CSMA/CD Protocol
- RJ-45 Port support auto MDI/MDI-X function
- 2K MAC address table
- 1Mbit memory buffer
- 2.0Gbps back-Plane
- Wide-range redundant power design
- Store and forward switch architecture
- DIN rail and 3-way wall mount design

B. Industrial Conformance

- 12~48V DC, redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- 0 to 60 Degree C operation temperature
- IP-30 Aluminum case
- Relay alarm for port breakdown, power failure
- EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6
- UL, cUL, CE/EN60950 safety
- Stability testing with IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock) and IEC60068-2-6 (Vibration)

Industrial**SNMP****Fast Ring****ISW-800M/802M****(6/8 Fast Ethernet ports + 2 100Base Fiber)**

Managed Industrial Ethernet Switch

c. Switching Feature

- **Ring function for data redundant, less than 300ms link/data recovery**
- **802.1q Tagged VLAN/Port-based VLAN**
- **IEEE 802.1p class of service, 4 priority queues**
- **IGMP v1 and Query mode**
- **802.1d STP / 802.1w Fast STP**
- **Ingress / Egress bandwidth control**

D. System

- **Web/SNMP management**
- **System event log support**
- **Configuration backup/restore**
- **E-mail event alert**
- **IP security for illegal access prevention**
- **TFTP firmware upgrade**
- **Port mirror transmission monitoring**

TP to Fiber Industrial Media Converter

Hardware Feature

- Comply with IEEE 802.3, IEEE 802.3u
- CSMA/CD Protocol
- RJ-45 Port support auto MDI/MDI-X function
- SC single-mode/multi-mode fiber optical interface
- Up to 30km connection distance (single-mode)
- Wide-range redundant power design
- Store and forward switch architecture
- DIN rail and 3-way wall mount design

Industrial Conformance

- DIP switch Port enable/disable alarm, LLF configuration, FX full/half-mode configuration
- 12~48V DC, redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- 0 to 60 Degree C operation temperature
- IP-30 Aluminum case
- EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6
- UL, cUL, CE/EN60950 safety
- Stability testing with IEC60068-2-32(Free fall), IEC60068-2-27(Shock) and IEC60068-2-6(Vibration)

Industrial

IP30

Din Rail

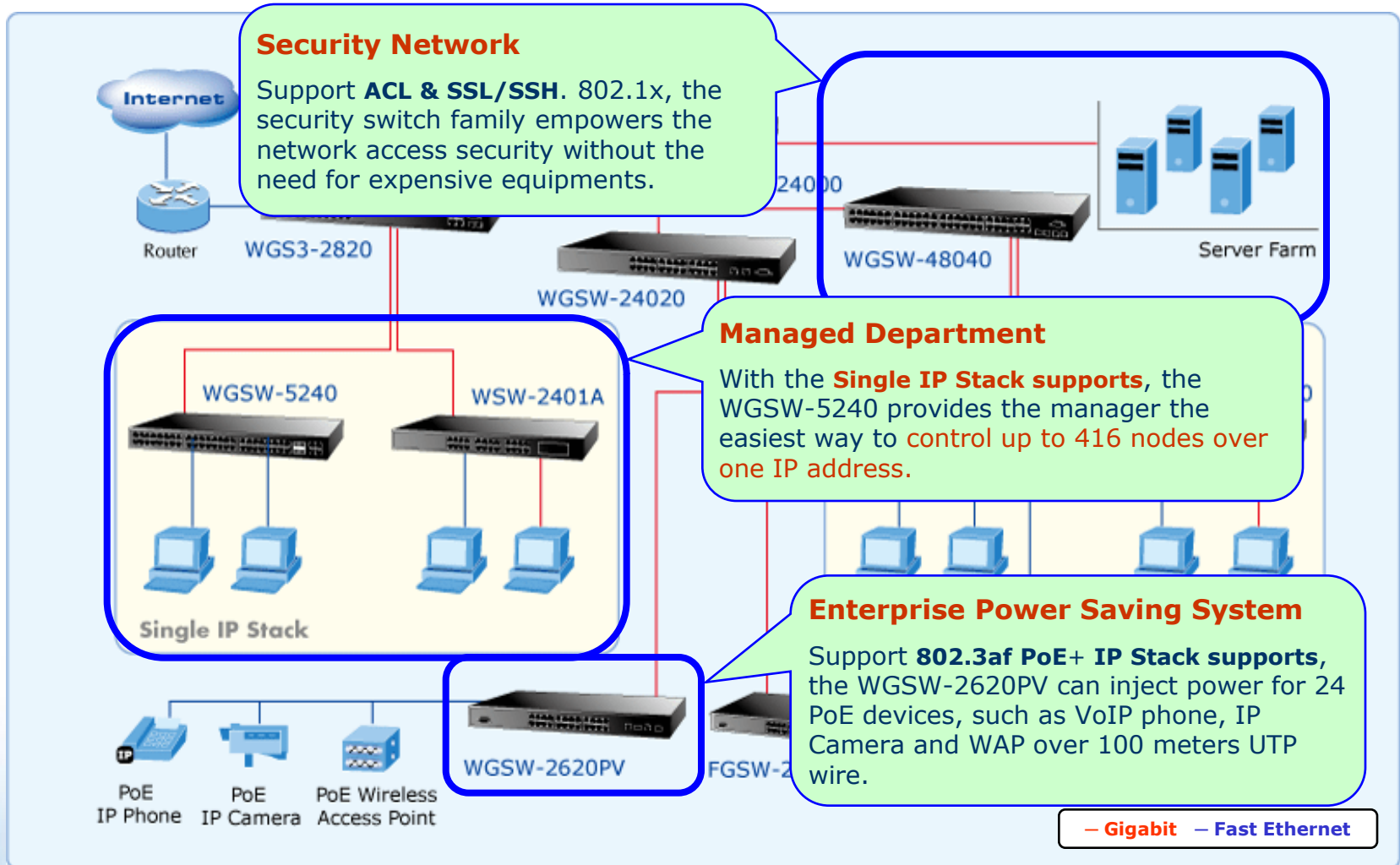


IFT-802

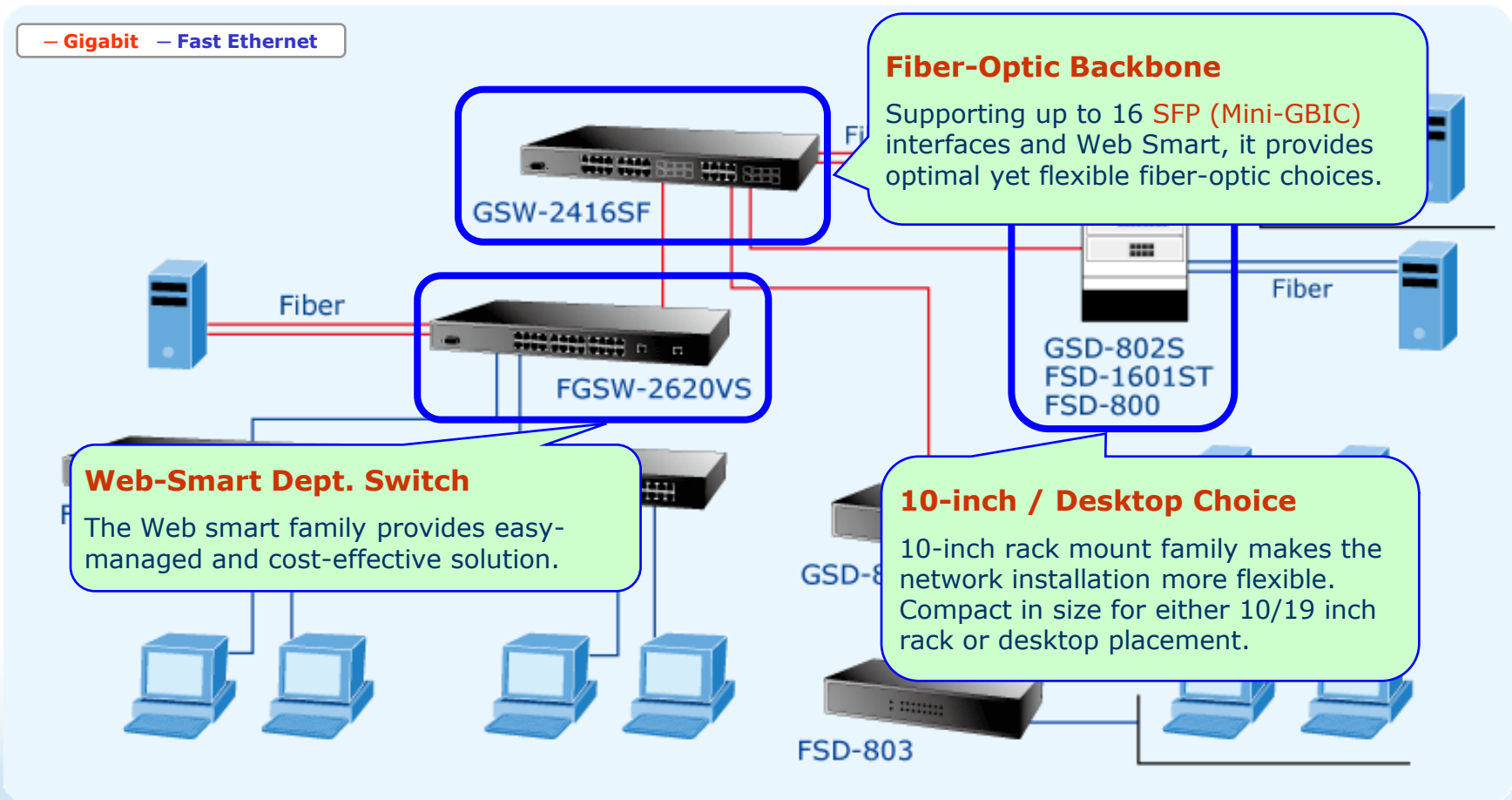
(1 Fast Ethernet port,
1 100Base-FX mm,sc)

Solutions





■ Ethernet LAN Solution for SMB / SOHO



ACTIVATING IP POWER

