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PLANET
Networking & Communication

Ethernet Switch Solution

Advantages of PLANET Ethernet Switches

- Powerful **100Gbps** Ultra-high-bandwidth Solution for Big Data System

- IPv4 and IPv6 Hardware Layer 3 Routing

- User-friendly Management with **Unique LCD Touch Screen**

- Efficient Single IP Management

- **2.5G Fiber Speed** Solution

- **Centrally managed** by PLANET
  Universal Network Management System

- CloudViewer APP Supported*

  *For specific models only

Ethernet Switches Family

- **Layer 3 Core Switches/Chassis**

- **Touch LCD Managed Switches**

- **Stackable Managed Switches**

- **Managed Ethernet Switches**

- **Metro Fiber Switches**

- **Unmanaged Ethernet Switches**

*Remark: **Industrial-grade Ethernet Switches** and **PoE Switches** are fully introduced in their respective sales guide.*

Layer 3 100G Fiber Managed Switch

- **Layer 3 10~100Gbps static routing with 24/12-port SFP+ fiber interfaces**

- **100G QSFP28 fiber interface compatible with 40G QSFP+** *(XGS-6350-24X4C)*

- **40G QSFP+ fiber interface** *(XGS-5240-24X2QR)*

- **1.28Tbps, 256/640Gbps switching fabric**

- **SSH/ ACL/ WRR/ RADIUS authentication**

- **IPv4/IPv6 static routing, RIP & OSPF**

- **Cisco-like command with console interface**

XGS-6350-24X4C
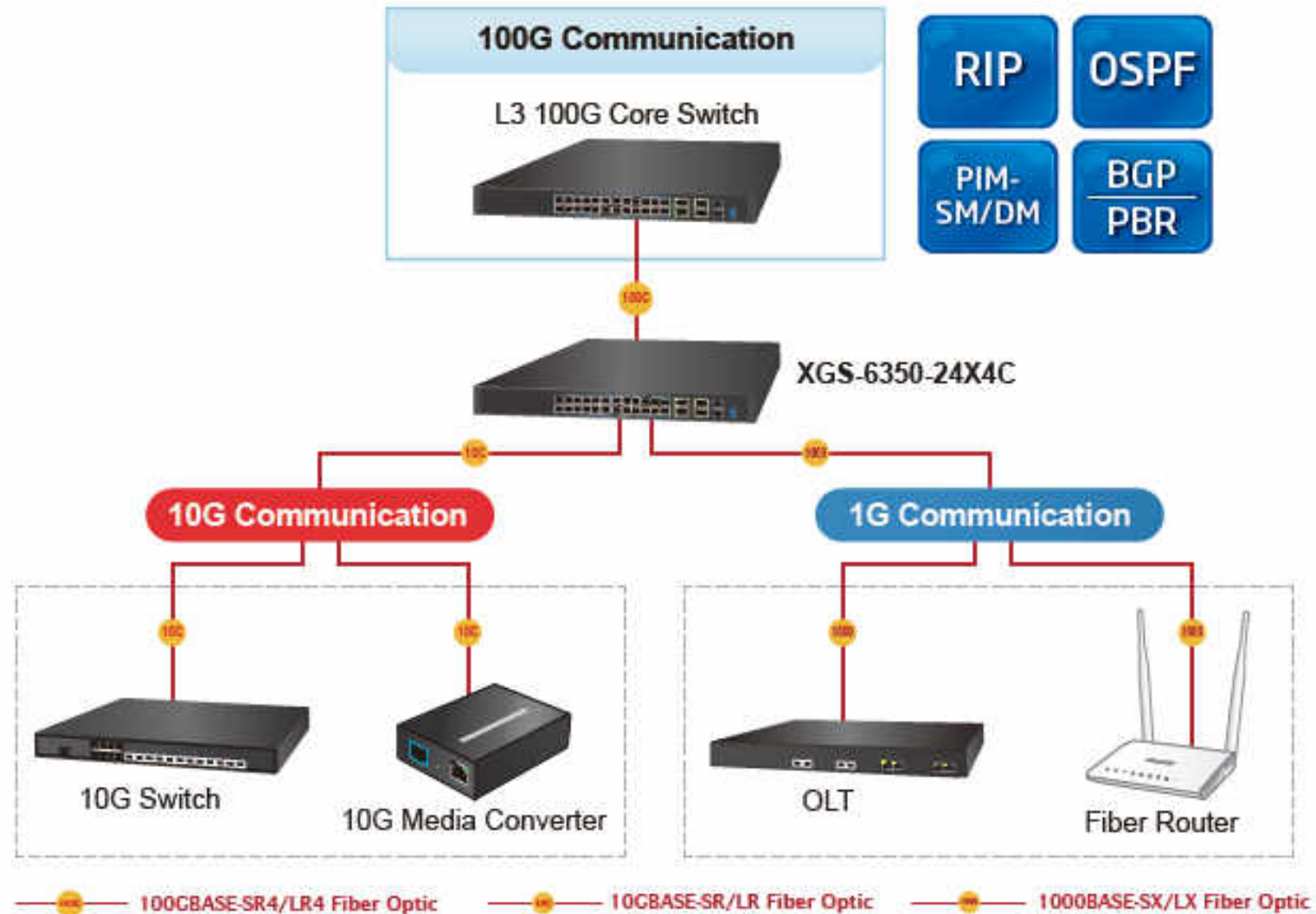(**24-port 10G SFP+** and 4-port **100G QSFP28**)

XGS-6350-12X8TR
(**12-port 10G SFP+,** Dual AC redundant Power)

XGS-5240-24X2QR
(**24-port 10G SFP+,** 2-port **40G QSFP+,** Dual DC redundant power)

Layer 3 Telecom Switch/Chassis

◆ **Target markets:**
High Performance Network Service

- ◆ **ISP/Telecom/Network Service Provider**

- ◆ **Tender Market**

- ◆ **Government, Campus, Hospital**

- ◆ **Enterprise Secure Office, Factory**

◆ **Product Features**

- ◆ **10Gb Ethernet**

- ◆ **IPv6/IPv4 Dynamic Routing**

- ◆ **IPv6/IPv4 Multicast Routing**

- ◆ **IPv6/IPv4 Tunneling**

- ◆ **IPv6/IPv4 Dual Stack**

- ◆ **Enhanced Security**

- ◆ **Software/Hardware stacking**

CS-6306R
6-slot Layer 3 IPv6/IPv4 Routing Chassis Switch

XGS3-24242
24Gbps SFP + **16-Port Shared TP**
+ **4 10G SFP+** L3 Stackable Managed Switch

XGS3-24042
24-Port Gigabit + **4-Port 10G SFP+**
Layer 3 Stackable Managed Switch

6-slot Layer 3 IPv6/IPv4 Routing Chassis Switch

CS-6306R

Optional Switch Modules

Modules		Type	10/100/1000 BASE-T	1000 BASE-X SFP	1/10GBASE-X SFP+	40G BASE-X QSFP+
CS6-MCU		Management	-	-	-	-
CS6-S16X		Switch	-	-	16	-
CS6-S24T24S		Switch	24	24	-	-
CS6-S24T8X		Switch	24	-	8	-
CS6-S24S8X		Switch	-	24	8	-
CS6-S48S		Switch	-	48	-	-
CS6-S48T		Switch	48	-	-	-
CS6-S4Q		Switch	-	-	-	4

IPv6/IPv4 Layer 3 Routing Switch

CS-6306R

Chassis Switch Applications - Enterprise

High Performance

High Density

Flexibility

Scalability

Reliability

ISP / Telecom

Enterprise

Campus / Hospital

Data Center
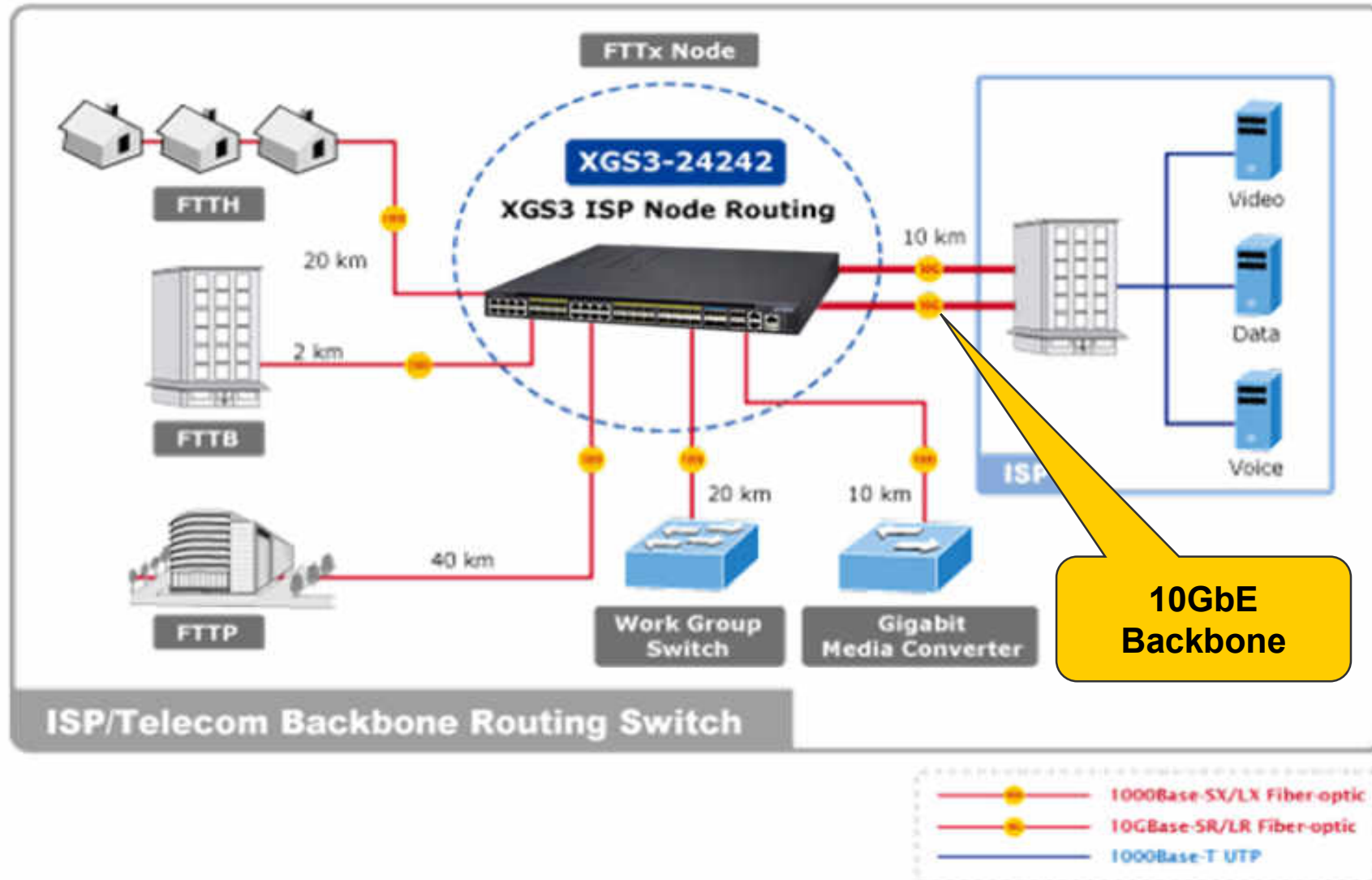
PLANET Chassis-based Switch
CS-6306R

ISP/Telecom Backbone Routing Switch

Product Features

Stackable Managed Switch

Enterprise Network Stacking Management

Layer 3 Stackable Managed Switch

- ◆ **L3 dynamic routing, multicast routing**

- ◆ **4-port 1/10G SFP+ uplink**

- ◆ **Redundant power design** *(SGS-6341-16S8C4XR)*

- ◆ **Software/ Hardware stacking**

- ◆ **Single IP Management up to 4 units with redundancy (Hardware stacking)**

- ◆ **802.3at PoE+ compliant and intelligent PoE management** *(SGS-6341-24P4X)*

- ◆ **Efficient and Secure Management**

- ◆ **Target for enterprise backbone**
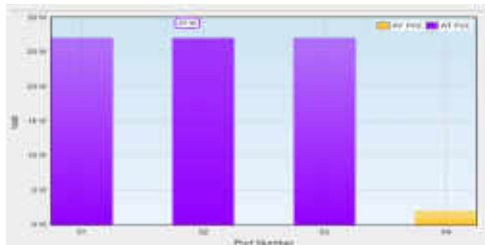
SGS-6341-16S8C4XR

SGS-6341-48T4X

SGS-6341-24T4X
SGS-6341-24P4X (370W PoE Budget)

Intelligent PoE Management

◆ **Real-time** powered devices status

◆ **Monitor** connected PD status; **the PoE port power can be immediately resumed** to bring the PD back to work if disconnected.

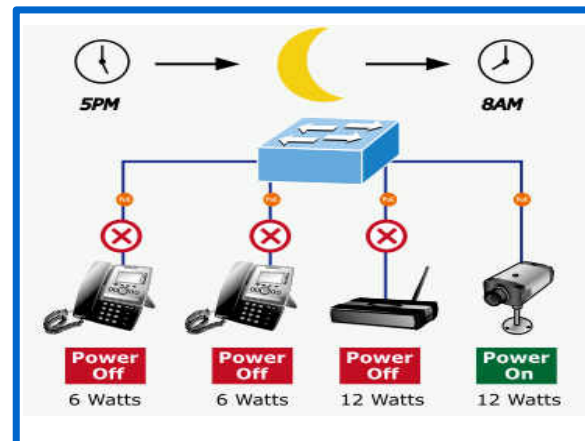◆ **PoE devices can be scheduled to turn off/on** for energy saving.
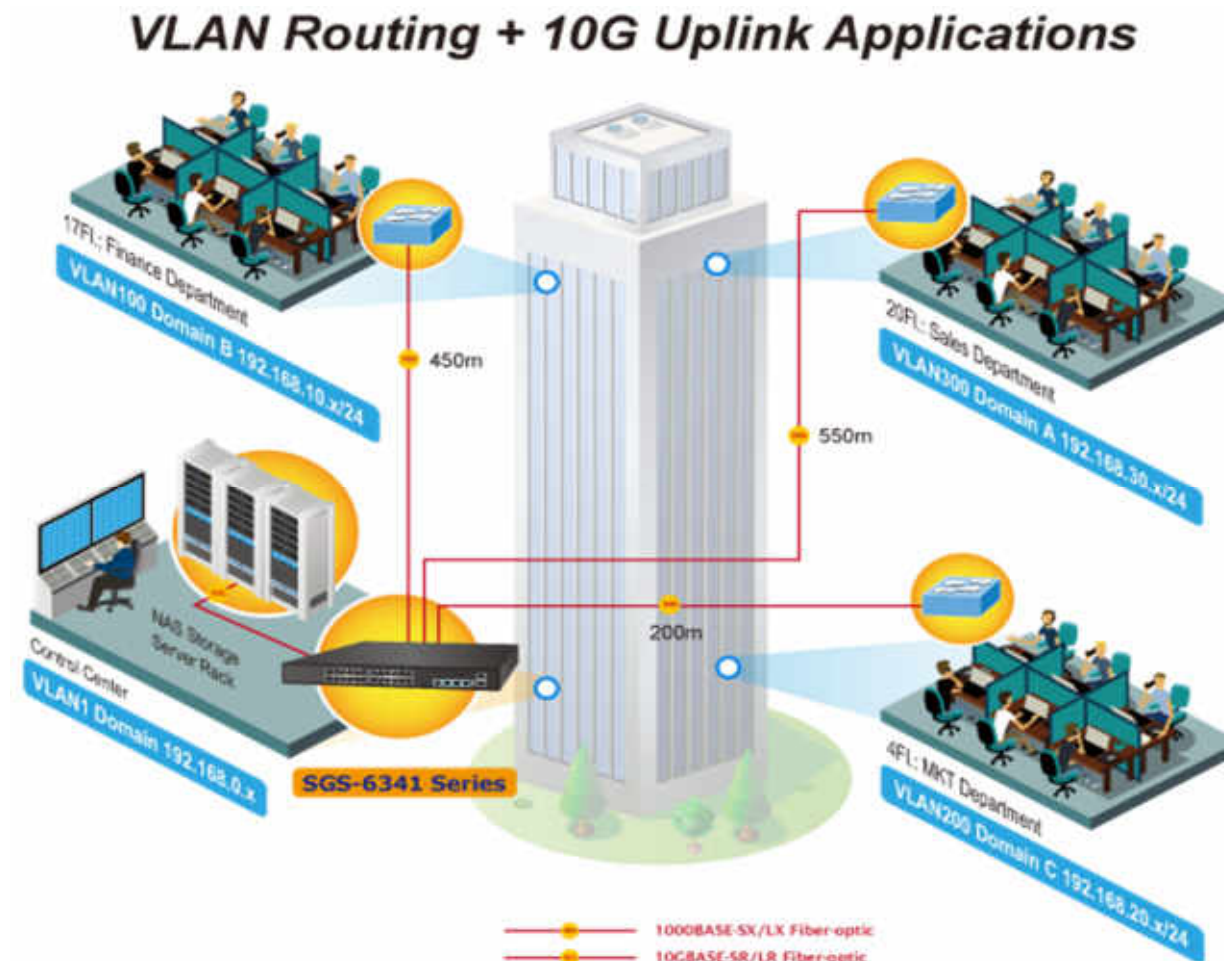

Real-time PoE Status

PD Alive Check

PoE Schedule for Energy Saving

◆ **To separate different departments with dynamic routing function**

Layer 2+ Stackable Managed Switch

◆ **Hardware-based two 10G SFP+ Stacking ports**

- Stacking up to **6** units
- Stacking up to **288** Gigabit Ethernet ports *(SGS-5240-48T4X)*
- Stacking up to **144** PoE+ ports *(SGS-5240-24P4X)*
- Stacking up to **12** high-capacity 10G SFP+ Uplink ports

◆ **AC + DC redundant power** *(SGS-5240-20S4C4XR)*

◆ **DHCP Snooping/ARP Inspection and IP Source Guard**

◆ **IGMP Snooping, MLD Snooping support**

◆ **802.1x/RADIUS/TACACS+ Authentication**

◆ **Secure SSL/SSH/SNMPv3 Management**

◆ **Single IP management**

◆ **IPv6/IPv4 Layer 3 Static Routing**

◆ **Supports IEEE 802.1Q VLAN**

SGS-5240-20S4C4XR

SGS-5240-24T4X

SGS-5220-48T4X

SGS-5220-24P4X

Product Features

Metro Fiber Switch

Managed Metro Ethernet Switch

- **IPv6/IPv4 Layer 3 Static Routing and OSPFv2**

- **IPv6/IPv4 dual stack management**

- **Fully front panel access design**

- **Layer 2/3/4 Access control list and port security**

- **ERPS** (Ethernet Ring Protection Switching)
  (for MGSW-28240F, MGSD-10080F)

- **STP/RSTP/MSTP connection redundancy**

- **Intelligent SFP Diagnosis Mechanism**
  - Digital Diagnostic Monitor (DDM)

- **Cybersecurity**

- **DI/DO for event and alarm**

- **Dual power system for power redundancy**

  - **- 36V ~ -72V DC**   ◆ **100V ~ 240V AC**

- **- 10 to 60 degrees C operating temperature**

MGSW-28240F
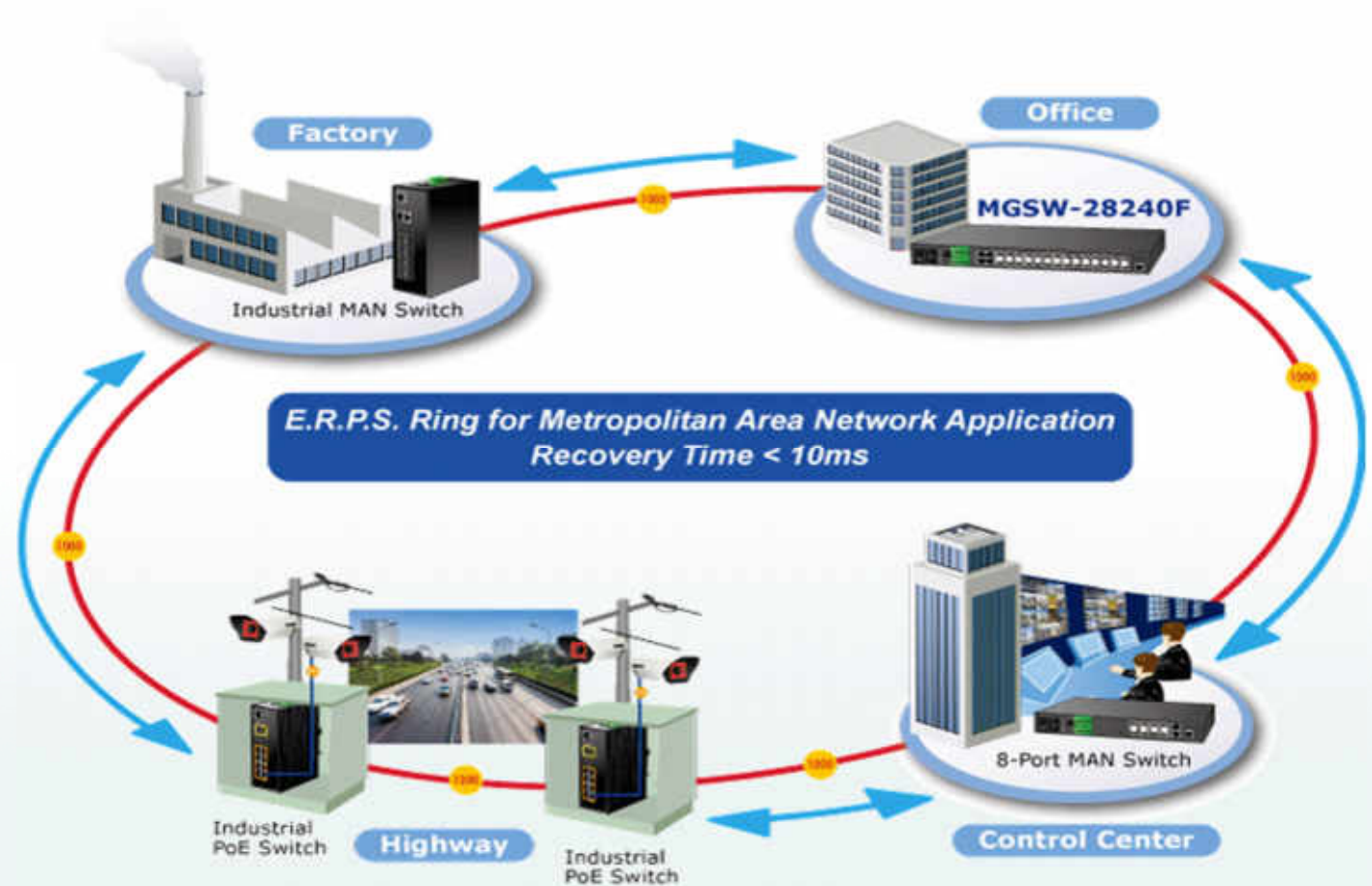(24-port + 4-port 10G Fiber)

MGSW-24160F
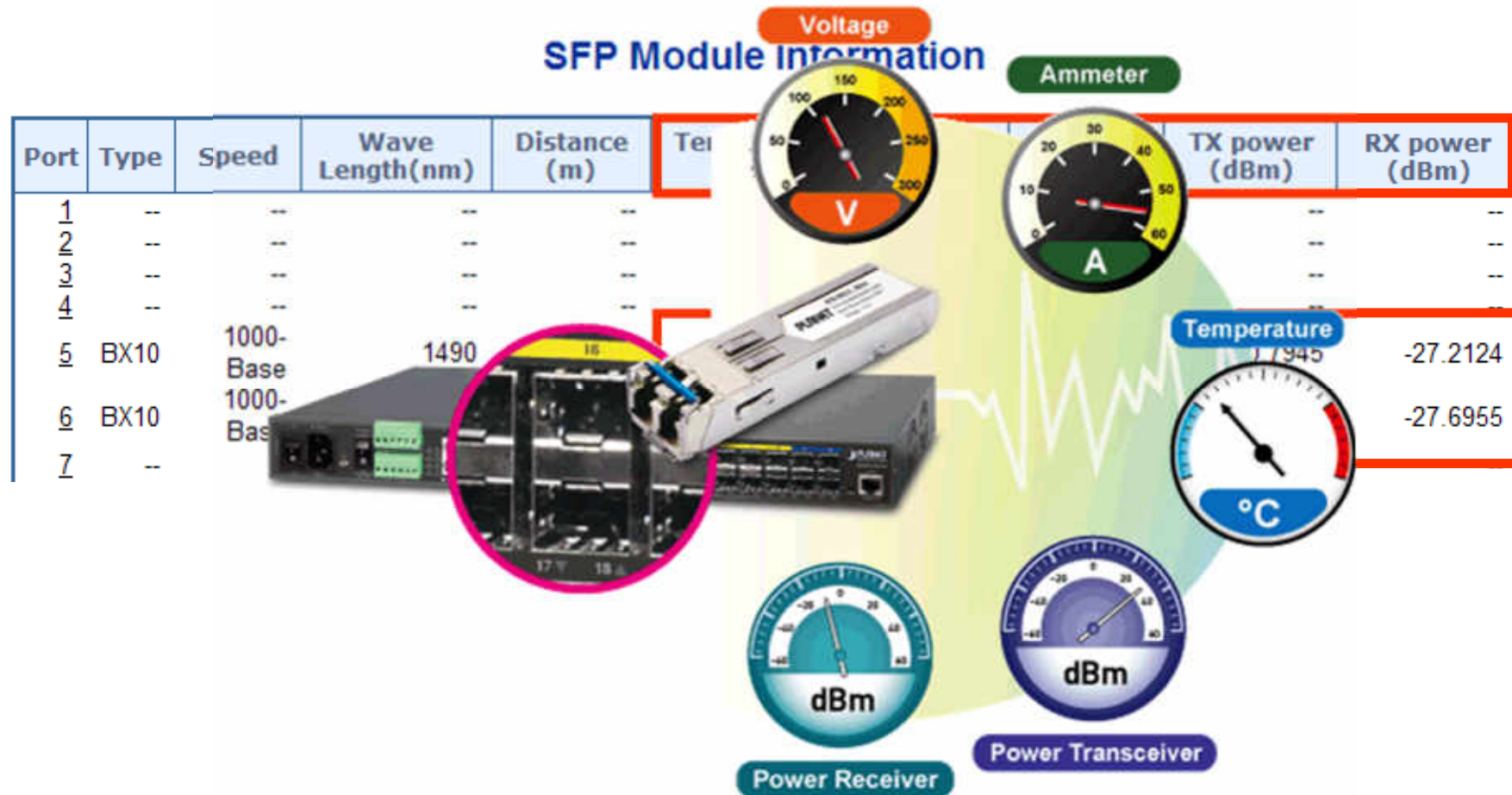(16-port Fiber)

MGSD-10080F
(8-port Fiber)

Features ERPS

✓ **ERPS Ring for Network Redundancy**

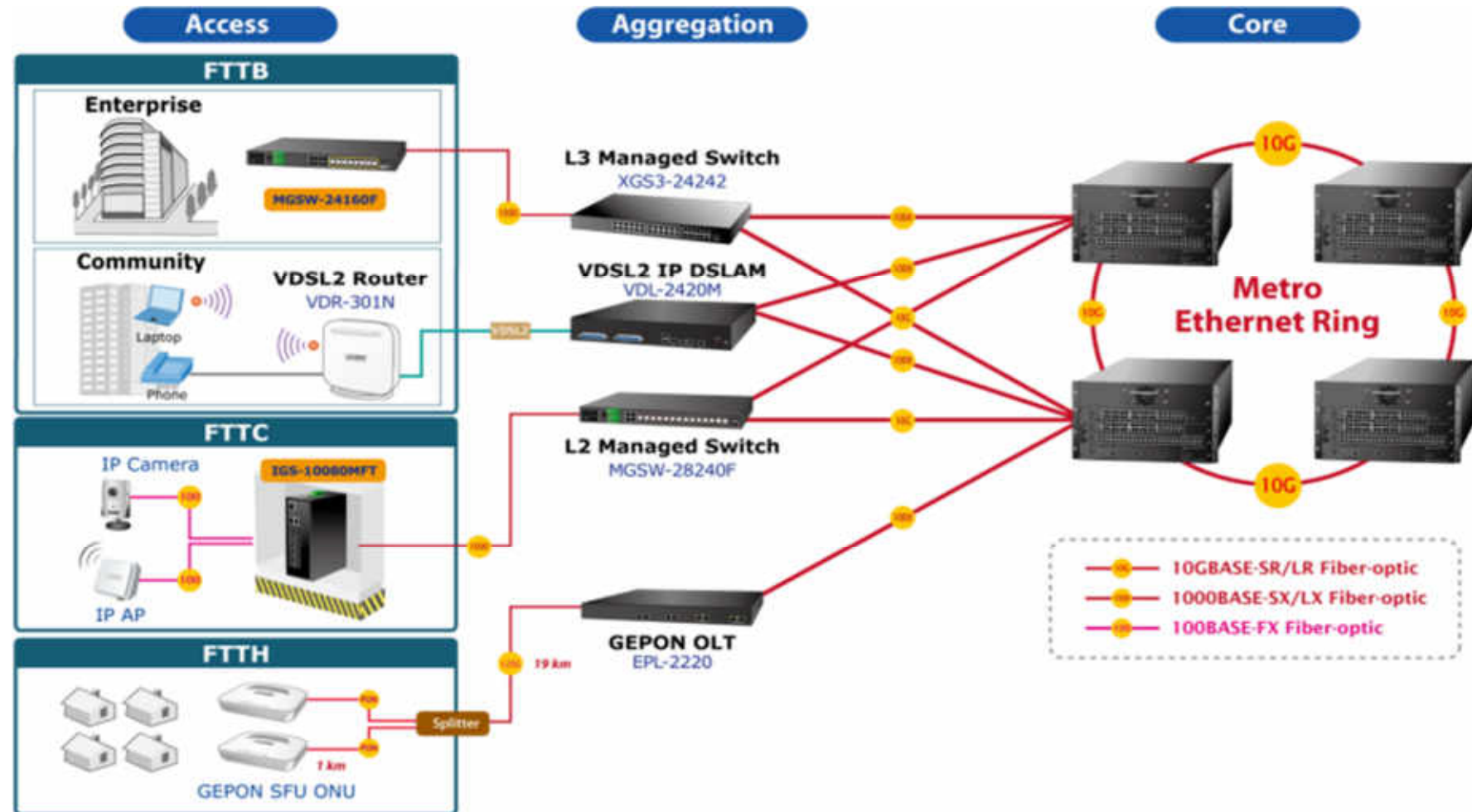✓ **Strong rapid self-recovery capability**

✓ **10ms recovery time**

◆ Digital Diagnostic Monitor (DDM)

- ◆ Efficient management by real-time monitoring of the SFP status

Metro Ethernet Application

Product Features

Touch LCD Managed Switches

Unique Touch LCD Design

- **Optimize network efficiency with a simple touch**
  - LCD touchscreen for real-time network and PoE management
  - Quick trouble shooting and maintenance

- **Advanced specifications**
  - **802.3bt PoE++,** 802.3at PoE+ compliant
  - Layer 3 management, **10G SFP+ uplink**
  - Industrial Flat-type design
  - Redundant power protection
  - Centrally managed by PLANET Universal Network Management System
  - CloudViewer APP supported*
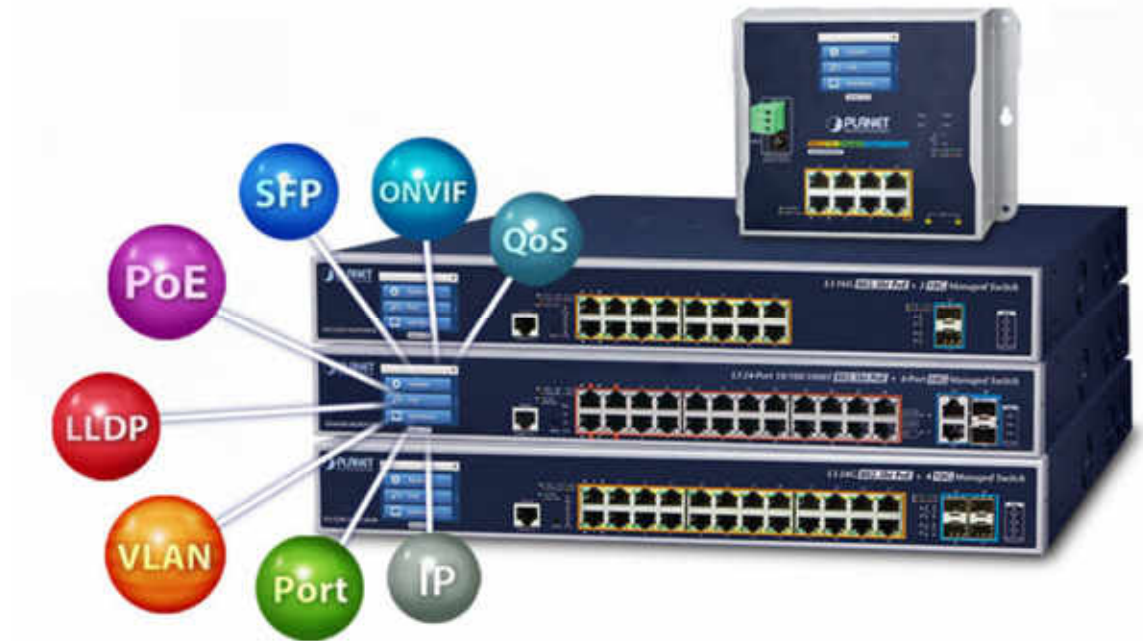
  specific models: GS-6320-24UP2T2XV, GS-5220-24UPL4XV, GS-5220-24UPL4XVR

Smart and Intuitive LCD Control

◆ **Color touch panel facilitates network and PoE PD management**

- ◆ System IP address, VLAN and QoS configuration
- ◆ PoE management and status
- ◆ Port management and status, and SFP information
- ◆ ONVIF device list and status
- ◆ Cable diagnostic and remote IP ping
- ◆ Reboot, factory default and save configuration
- ◆ PIN code access protection

Touch LCD Layer 3 Aggregation Switches

- ◆ **Layer 3 IP dynamic routing protocol and OSPFv2 supported**

- ◆ **95W IEEE 802.3bt PoE++ injectors** *(GS-6320-24UP2T2XV)*

- ◆ **2/4 x 1/10G SFP+ slots for uplink**

- ◆ **100~240V AC, 36~60V DC redundant power design**

- ◆ **ITU-T G.8032 ERPS function, recovery time less than 10ms**

- ◆ **Cybersecurity features: SSH and SSL management**

- ◆ **IPv6/IPv4 Web, Telnet and SNMP management**

GS-6320-24UP2T2XV
(600W PoE Budget)

GS-5220-16UP2XV(R)
(400W PoE Budget)

GS-5220-24T4XV(R)

Touch LCD Layer 2+ Managed Switches

◆ **Layer 3 IP static routing supported**

◆ **75W IEEE 802.3bt PoE++ injectors**
(GS-5220-24UP series)

◆ **2/4 x 1/10G SFP+ slots for uplink**

◆ **100~240V AC, 36~60V DC redundant power design**

◆ **ITU-T G.8032 ERPS function, recovery time less than 10ms**

◆ **Cybersecurity features: SSH and SSL management**

◆ **IPv6/IPv4 Web, Telnet and SNMP management**

GS-5220-24UPL4XV(R)
(600W PoE Budget)

GS-5220-24UP4XV(R)
(400W PoE Budget)

GS-5220-16P2XV(R)
(220W PoE Budget)

GS-5220-16T2XV(R)

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Touch LCD Wireless LAN Managed Switch

◆ 4-port **10G SFP+ uplink** capability

◆ LCD touch screen with easy management

◆ Intelligent PoE Management: AP alive check, PoE schedule, Scheduled AP power recycling

◆ ERPS ring data recovery time < 50ms

◆ L2+/L4 IP management

◆ Free system upgrade and AP bulk upgrade capability

◆ **Wireless LAN Management**

  ◆ Management of 64 APs

  ◆ Dashboard view of wireless network status at-a-glance

  ◆ Customized Profile available

  ◆ Multi-AP auto provisioning in one click

  ◆ Simplifies Cluster Management

  ◆ Zone Plan optimizes AP deployment with actual signal coverage

◆ **Network Management**

  ◆ SNMP v1, v2c, and v3 management

  ◆ Supports PLANET DDNS/Easy DDNS

  ◆ Cloud management via PLANET DDNS

WS-2864PVR

Real-time Statistics by WS-2864PVR

Real-time Traffic Statistical Monitoring of APs and Clients
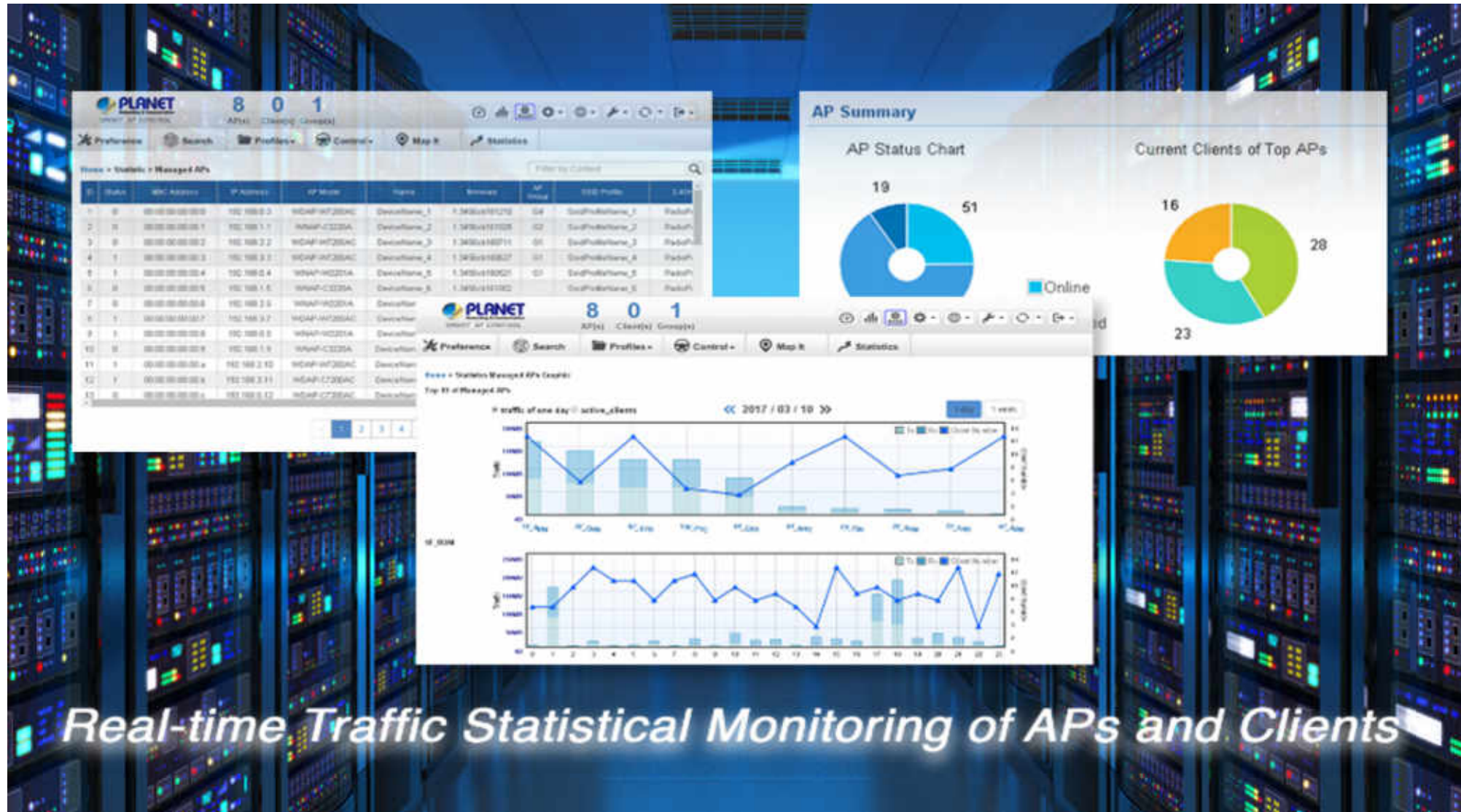
Flat-type Touch LCD L2+ Managed Switch

- **User-friendly 2.4-inch Touch Color LCD Display**
  - ✓ Port Management
  - ✓ Port Status
  - ✓ PoE Port/PD Management *(WGS-5225-8P2SV)*
  - ✓ Cable Diagnostic

- 2 x 100/1000X SFP slots for Fiber-optical Link

- **ERPS Ring** Data Recovery time < 10ms

- IPv4/IPv6 Layer 3 static routing

- **Cybersecurity** protection

- Supports Modbus TCP/IP Protocol

- 802.3at PoE+ with intelligent PoE management *(WGS-5225-8P2SV)*

- Supports ONVIF detection *(WGS-5225-8P2SV)*

- -20 ~ 70 degrees C operating temperature

● **PoE Port Management**

WGS-5225-8P2SV
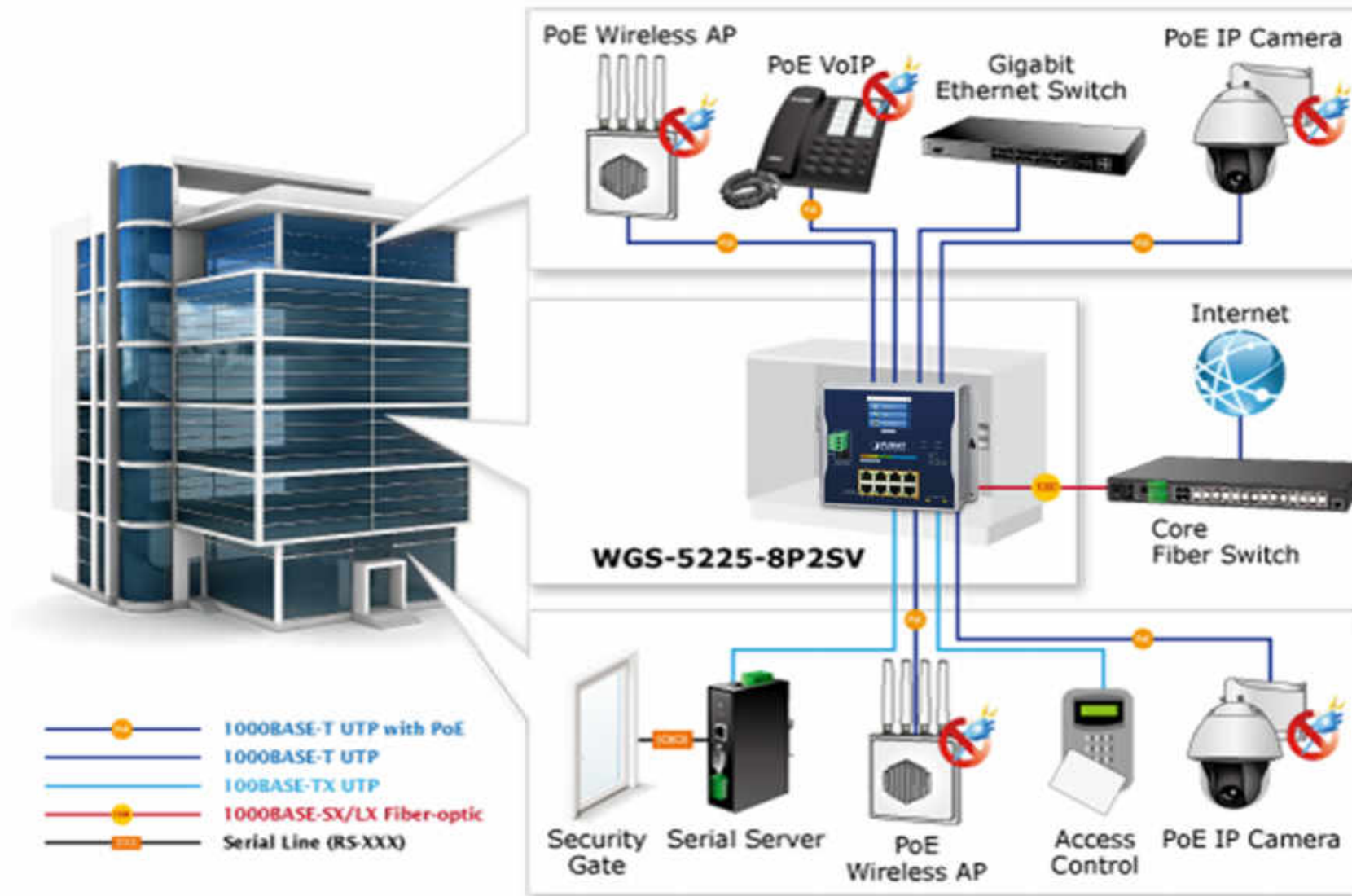
● **Port Management**

WGS-5225-8T2SV

Product Features

Managed Ethernet Switches

Layer 3 Aggregation Switches with 10G uplink

- **Layer 3 Static routing and OSPFv2 supported**

- **95W IEEE 802.3bt PoE++ injectors**

- **2/4 x 1/2.5/10G SFP+ slots for uplink**

- **Redundant power design without PoE functions**

- **ITU-T G.8032 ERPS function, recovery time less than 10ms**

- **Cybersecurity features: SSH and SSL management**

- **Access methods with web GUI, telnet and console**

GS-5220-24UP4X Series (400W PoE Budget)
GS-5220-24UPL4X Series (600W PoE Budget)

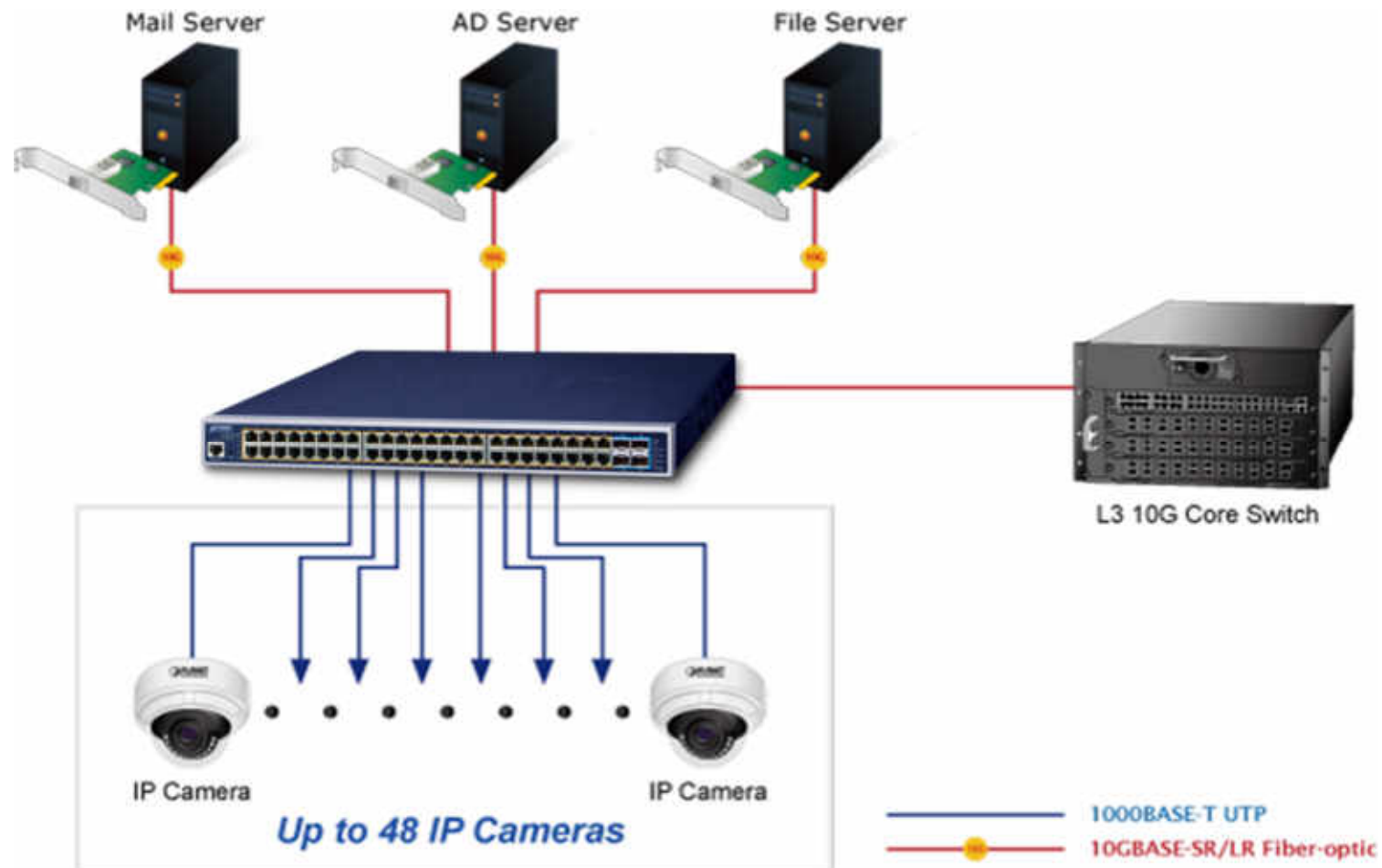**GS-5220-16UP4S2X Series** (400W PoE Budget)

GS-5220-48P4X Series (400W PoE Budget)
GS-5220-48PL4X Series (600W PoE Budget)

GS-5220-8UP2T2X (240W PoE Budget)

Layer 3 Aggregation Switch Application

◆ **Excellent 10Gbps High Bandwidth Solution to Core Network**

Layer 2+ IPv6 Backbone Switch

- **Telecom class Gigabit solution for Enterprise Backbone and Data Center Networking**

- **IPv6/IPv4 Layer 3 Static Routing**

- **24-Port 10/100/1000BASE-T, 4 shared SFP slots**

- **24-Port 100/1000BASE-X SFP slots**

- **High Performance Full Wire-Speed Forward**

- **IPv6/IPv4 Dual Stack Management**

- **Strong IPv6/IPv4 Multicast Protocols**

- **IPv6/IPv4 RADIUS, ACL and QoS**

- **Advanced Secure Network Management**

GS-5220-16S8C
GS-5220-16S8CR

Multigigabit Layer 2+ Managed Switch

- 8-port 100/1000/**2500**BASE-T with 802.3at PoE

- 2-port **1/10G SFP+** slots for uplink, flexible for Fiber-Optic network extension

- Hardware-based **IPv6/IPv4 Layer 3 Static Routing**

- **User Privilege** levels control

- 36W PoE output per port

- Total **240W** PoE budget

- **PoE Schedule/Schedule Power Recycle/PD Alive Check**

- PoE Power management

  - PoE Port power limit/Total limit to ensure stable system operating

  - Monitor power usage, current usage, power consumption on Powered Devices

- 13-inch compact size

- **SSH/SSL** Secure Management

- Integrate Security and QoS for PoE PD operating

MGS-5220-8P2X

Multigigabit PoE+ Switch Facilitates Next-generation AP Deployment
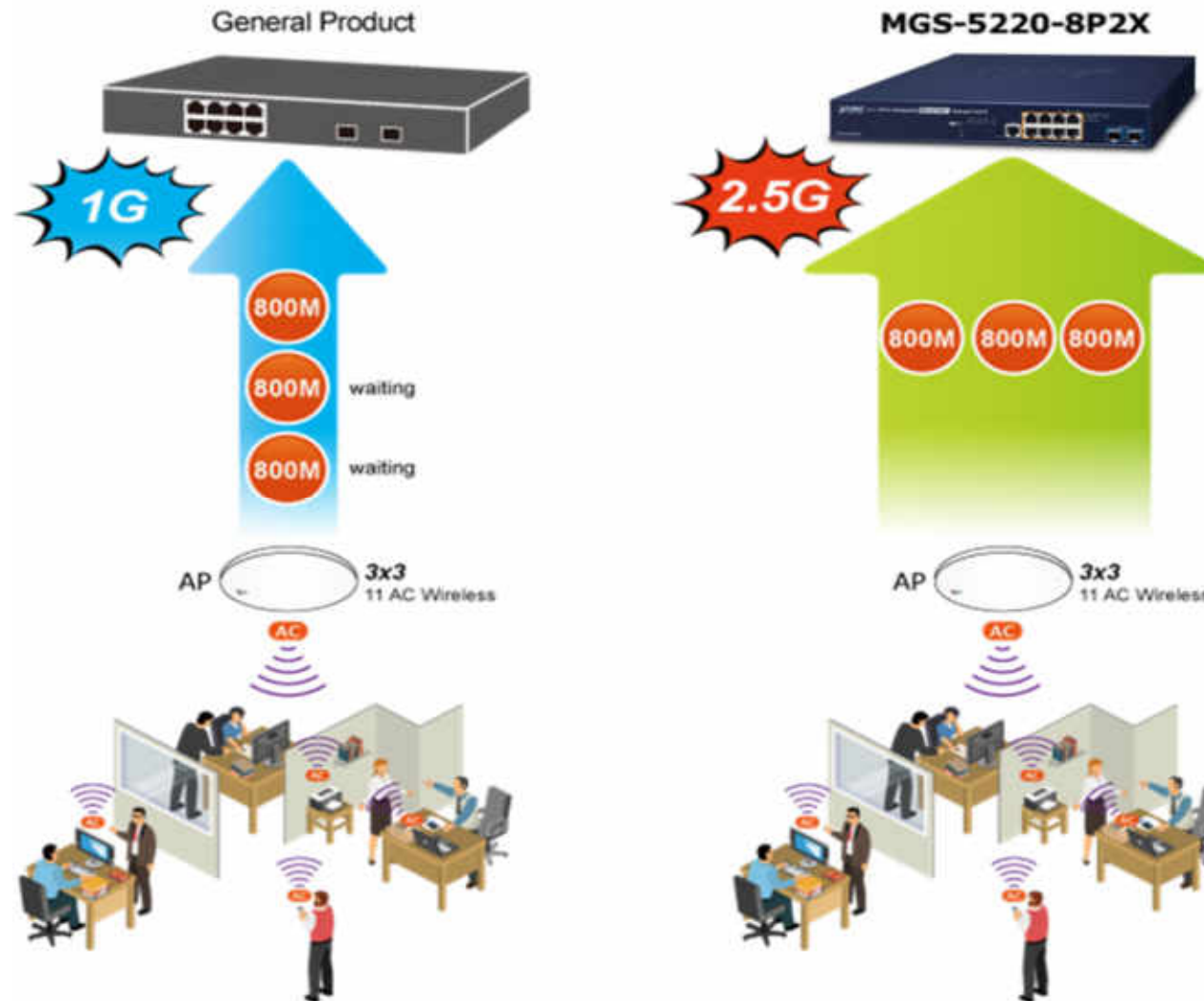
L2/L4 Managed Gigabit Switches

IPv6 Gigabit Backbone Switch

GS-4210-48T4S
48-port Gigabit + 4-port Gigabit SFP

Gigabit Switch

GS-4210-24T2S

GS-4210-16T2S

GSD-1020S

GSD-1002M
(Desktop PoE PD)

802.3at PoE+ Switch

GS-4210-48P4S
(440 watts)

GS-4210-24P4C
GS-4210-24PL4C
(220/440 watts)

GS-4210-24P2S
(300 watts)

GS-4210-16P4C
GS-4210-16P2S
(220 watts)

GS-4210-8P2T2S
(240 watts)

GS-4210-8P2S
(120 watts)

802.3bt PoE++ Switch

GS-4210-24UP4C
(600 watts)

GS-4210-16UP4C
(400 watts)

48-port Managed Switch

- **48-port Gigabit Port with 4-port 1000X SFP**

- **IPv6/IPv4 Protocol**

- **SSH/SSL Secure Management**

- **IEEE 802.1Q VLAN**

- **IEEE 802.1w Spanning Tree Protocol**

- **802.1x/ACL/Port Security Network Access Control**

- **IGMP & MLD Snooping**

GS-4210-48T4S

16/24-port Managed **PoE++** Switch

- **16/24-port Gigabit IEEE 802.3bt PoE++ compliant**

- **Up to 95 watts of PoE power on 4-pair UTP**

- **4-port Gigabit TP/SFP combo Managed**

- **400-watt/600-watt PoE Budget**

- **IPv6/IPv4 Web/Telnet/SNMP (v1, v2c, v3)/ SSH/SSL Management**

- **IEEE 802.1Q VLAN/ Voice VLAN/ 802.1w Spanning Tree Protocol**

- **Bandwidth Control/Storm Control**

- **Layer 3/4 Access Control List/ Port Security/ 802.1x**

GS-4210-24UP4C (600W PoE Budget)

GS-4210-16UP4C (400W PoE Budget)

L2/L4 Web Smart Switches

◆ **Full port 802.3at PoE+ injectors**

◆ **8/16/24 RJ45 ports and uplink compo ports**

◆ **Web-based management**

◆ **Layer 2 management**

◆ **PoE management**

   ◆ **Per port PoE function enable/disable**

   ◆ **PoE port power feeding priority**

   ◆ **Per PoE port power limit**

   ◆ **PD classification detection**

   ◆ **PoE Power sequential**

FGSW-2624HPS4 (420W PoE Budget)
FGSW-2624HPS   (220W PoE Budget)

FGSW-1816HPS (220W PoE Budget)

FGSD-1008HPS (125W PoE Budget)

Product Features

Unmanaged Ethernet Switches

Unmanaged LCD PoE Switch

- **Up to 60 watts of PoE++ power on 4-pair UTP**
  (FGSW-2022VHP)

- **2-port Gigabit TP and 2-port Gigabit SFP for uplink**

- **IEEE 802.3at PoE+, up to 32 watts per PoE port**

- **2-port Gigabit TP/SFP for uplink**

- **LCD with real-time PoE port status display, and power and alarm alerts**

- **Auto-negotiation and auto MDI/MDI-X**

- **Automatic address learning and address aging**

- **Plug and Play design**

- **802.3bt PoE++ Switch**

  FGSW-2022VHP
  (**4-port PoE++** , 12-port PoE+, 300W PoE Budget)

- **802.3at PoE+ Gigabit Switch**

  GSW-2620VHP
  (24-port PoE+, 300W PoE Budget)

  GSW-1820VHP
  (16-port PoE+, 300W PoE Budget)

  GSD-1222VHP
  (8-port PoE+, 120W PoE Budget)

- **802.3at PoE+ Fast Ethernet Switch**

  FGSW-2622VHP
  (24-port PoE+, 300W PoE Budget)

  FGSW-1822VHP
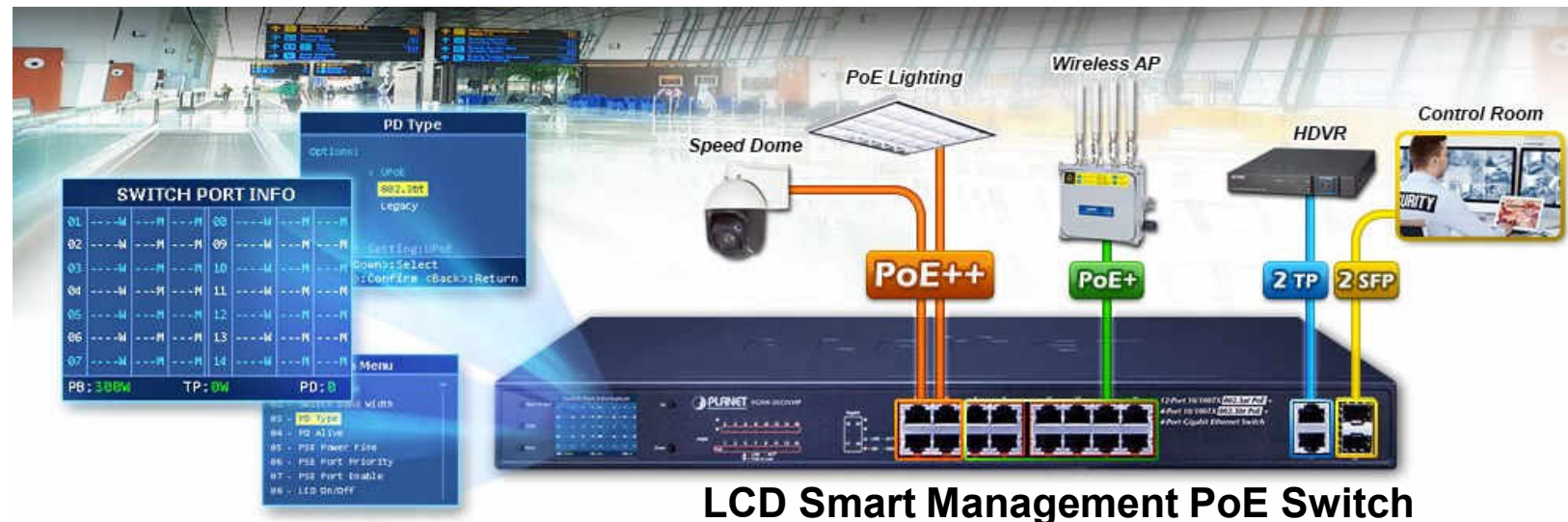 (16-port PoE+, 300W PoE Budget)

  FGSD-1022VHP
  (8-port PoE+, 120W PoE Budget)

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Real-time Display via Color LCD

◆ **The embedded color LCD on the switch's front panel facilitates the Ethernet management and PoE PD management.**

- ◆ Port management and status
- ◆ Switch mode: Standard, VLAN or Extend
- ◆ PD type: 802.3at, 802.3bt, Legacy
- ◆ Budget and bandwidth control
- ◆ PD alive check
- ◆ Screen saver, fan control and factory default
- ◆ Security password

LCD Smart Management PoE Switch

Unmanaged Switch Family

PLANET
Networking & Communication

Desktop Switches

19-inch Switches

Gigabit Ethernet

GSD-908HP
(8-port **PoE+**, 1-port TP, 120W PoE Budget, fanless)

GSD-1008HP
(8-port **PoE+**, 2-port TP, 120W PoE Budget)

GSD-804P
(8-port Gigabit with 4-port PoE+, 60W PoE Budget)

GSD-604HP
(4-port **PoE+**, 2-Port TP, 60W PoE Budget)

GSD-504UP
(2-port **PoE++,** 2-port PoE+, 120W PoE Budget, fanless)

GSW-2620HP
(24-port **PoE+,** 2-port SFP 240W PoE Budget)

GSW-1820HP
(16-port **PoE+,** 240W PoE Budget)

GSW-2401
(24-port)

GSW-1601
(16-port)

Fast Ethernet

FGSD-1011HP
(8-port **PoE+**, 2-port TP, 120W PoE Budget)

FSD-1008HP
(8-port **PoE+**, 120W PoE Budget)

FSD-604HP
(4-port **PoE+**, 60W PoE Budget, internal AC)

FSD-504HP
(4-port **PoE+**, 60W PoE Budget)

FGSW-2511P
(24-port **PoE+**, 1-port SFP 190W PoE Budget)

FNSW-1600P
(16-port **PoE+,** 125W PoE Budget)

FNSW-2401
(24-port)

FNSW-1601
(16-port)

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Desktop Gigabit PoE+ Switch

- **8-port full Gigabit with 802.3at PoE injector function**

- **52V DC, 30 Watts PoE power output**

- **Auto detect powered device (PD)**

- **Energy Saving technology**
  - **Link down power saving**
  - **Intelligent scales power based on cable length**

- **9K Jumbo Frame supports all speeds (10/100/1000Mbps)**

- **Supports Pre-Energy-Efficient Ethernet (EEE) function (802.3az)**
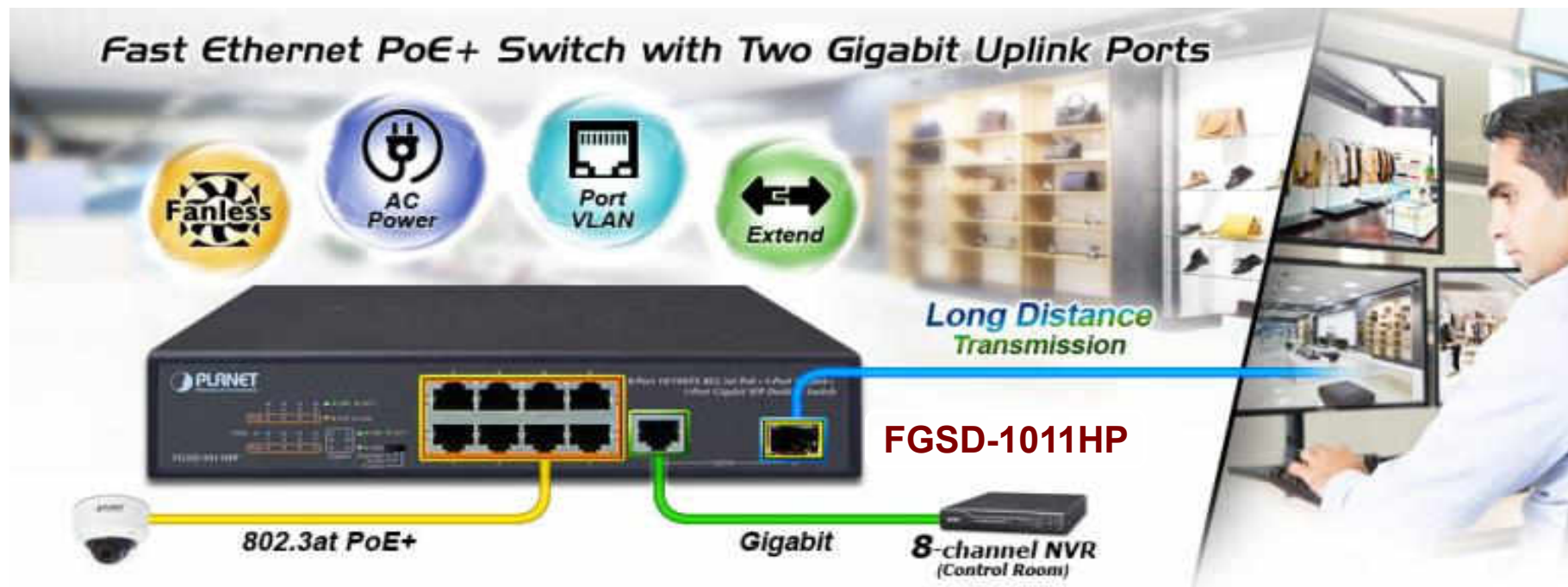
- **Safe, reliable power solution for SOHO and SMB**

GSD-908HP
(120W PoE Budget)

GSD-1008HP
(120W PoE Budget)

Fast Ethernet PoE+ Switch

- **Facilitates PoE IP camera deployment with power feeding**

- **8-port 802.3at PoE+ with 2-port Gigabit**

- **120-watt PoE budget**

- **Auto detects powered device (PD)**

Fast Ethernet PoE+ Switch with Two Gigabit Uplink Ports

Fanless AC Power Port VLAN Extend

Long Distance Transmission

FGSD-1011HP

802.3at PoE+   Gigabit   8-channel NVR (Control Room)

Home / SOHO Switch Family

Gigabit Ethernet

GSD-503 (5-port)
GSD-803 (8-port)
(Metal case)

GSD-504 (5-port)
GSD-804 (8-port)
(Plastic case)

GSD-603F
(4-port GbE +
1-port **SFP**)

GSD-805
(8-port, Internal power)

GSD-1603
(16-port, Energy saving)

Fast Ethernet

FSD-503 (5-port)
FSD-803 (8-port)
(Metal case)

SW-504 (5-port)
SW-804 (8-port)
(Plastic case)

◆ **View PLANET Ethernet Switch solution online**

LAN Switches

**LAN Switches
Product Selector**

*Remark: **Industrial-grade Ethernet Switches** and **PoE Switches** are fully introduced in their respective sales guide.*