

# Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10G SFP+ Wall-mount Managed Ethernet Switch



## Wall-mounted PoE Managed Switch with Advanced L2+ Switching and Security

PLANET **WGS-4215-Series** is an Industrial Wall-mount PoE+ Managed Switch with **LCD Touch Screen** (WGS-4215-8P2XV only) featuring PLANET **intelligent PoE** functions to improve the availability of industrial applications. It provides IPv6/IPv4 dual stack management a built-in Layer3 static routing capability, and a powerful L2+/L4 Gigabit switching engine along with **eight 10/100/1000BASE-T** ports featuring **36-watt PoE and two additional 100/1000/2500/10G BASE-X SFP ports**. With a total power budget of up to **288 watts** for different kinds of PoE applications, and featuring networking speed and operating temperature ranging from **-40 to 75 degrees C** for the WGS-4215-8P2X and from **-20 to 70 degrees C** for the WGS-4215-8P2XV in a compact but rugged IP30 metal housing, the **WGS-4215-Series** is an ideal solution to meet the demand for the following network applications:



\* The above pictures are for illustration only.

## Innovative Wall-mount Installation

The WGS-4215-Series is specially designed to be installed in a narrow environment, such as wall enclosure or electric box. The compact, flat and wall-mounted design fits easily in any space-limited location. The WGS-4215-Series can be installed by **fixed wall mounting or magnetic wall mounting**, thereby making its usability more flexible.

## Physical Port

- **8 10/100/1000BASE-T** Gigabit Ethernet RJ45 ports with **IEEE 802.3at PoE+** Injector function
- **2 100/1G/2.5G/10GBASE-X SFP+** slots for SFP type auto detection

## Industrial Case and Installation

- IP30 metal case
- Supports -20 to 70 degrees C operating temperature (WGS-4215-8P2XV only)
- Supports -40 to 75 degrees C operating temperature (WGS-4215-8P2X only)
- Supports ESD 6KV DC Ethernet protection
- Dual power input design
  - 48V~54V DC wide power input with reverse polarity protection
- Compact size with fixed wall-mounted design

## Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet PSE
- Up to 8 IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 36 watts for each PoE port
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100 meters in standard mode and 250 meters in extend mode
- Advanced PoE management capabilities:
  - Total PoE power budget control
  - Per port PoE function enable/disable
  - PoE port power feeding priority
  - Per PoE port power limitation
  - Detection of PD classification
- Intelligent PoE features
  - PD alive check
  - PoE schedule
  - Scheduled power recycling



**10Gbps Fiber Ports and Multiple Dual Speed Ports Deliver High-speed Networking**

Featuring a **10Gbps uplink**, the WGS-4215-Series excels in connecting to both the industrial backbone or high-capacity servers, delivering unmatched performance. Operating flawlessly across an extensive temperature range, it guarantees a non-blocking switch fabric and delivers astonishing wire-speed throughput of up to **56Gbps**. The 10G fiber port serves as a backbone for high-bandwidth applications, such as video streaming, cloud computing, and virtualization, ensuring seamless and swift data transmission. This transformative capability simplifies the process of industrial LAN upgrades, efficiently catering to escalating bandwidth requirements.

**Intuitive LCD Control (WGS-4215-8P2XV only)**

The WGS-4215-8P2XV comes with an intuitive touch panel on its front panel that facilitates the Ethernet PoE PD management that greatly promotes management efficiency in large-scale networks, such as enterprises, hotels, shopping malls, government buildings, and other public areas. It also features the following special management and status functions:

- IP address, VLAN and QoS configuration
- PoE management and status
- Port management and status, and SFP information
- Troubleshooting: cable diagnostic and remote IP ping
- Maintenance: reboot, factory default and save configuration



**Layer 3 IP Routing Features**

- Supports maximum 32 static routes and route summarization
- Routing interface provides per VLAN routing mode

**Layer 2 Features**

- Supports **VLAN**
  - IEEE 802.1Q tagged VLAN
  - Provider bridging (VLAN Q-in-Q, IEEE 802.1ad) support
  - Protocol VLAN
  - Private VLAN (Protected port)
  - Management VLAN
  - GVRP
- Supports **Spanning Tree Protocol**
  - STP (Spanning Tree Protocol)
  - RSTP (Rapid Spanning Tree Protocol)
  - MSTP (Multiple Spanning Tree Protocol)
  - STP BPDU Guard, BPDU Filtering and BPDU Forwarding
- Supports **Link Aggregation**
  - IEEE 802.3ad Link Aggregation Control Protocol (LACP)
  - Cisco ether-channel (static trunk)
  - Maximum 8 trunk groups, up to 8 ports per trunk group
- Supports port mirror (many-to-1)
- Loop protection to avoid broadcast loops
- Supports ERPS (Ethernet Ring Protection Switching)
- Link Layer Discovery Protocol (LLDP)

**Quality of Service**

- Ingress and egress rate limit per port bandwidth control
- Storm control support
  - Broadcast/Unknown unicast/Unknown multicast
- Traffic classification
  - IEEE 802.1p CoS
  - TOS/DSCP/IP precedence of IPv4/IPv6 packets
- Strict priority and Weighted Round Robin (WRR) CoS policies

**Multicast**

- Supports IPv4 IGMP snooping v2 and v3
- Supports IPv6 MLD snooping v1, v2
- IGMP querier mode support
- IGMP snooping port filtering
- MLD snooping port filtering

### Cybersecurity Network Solution to Minimize Security Risks

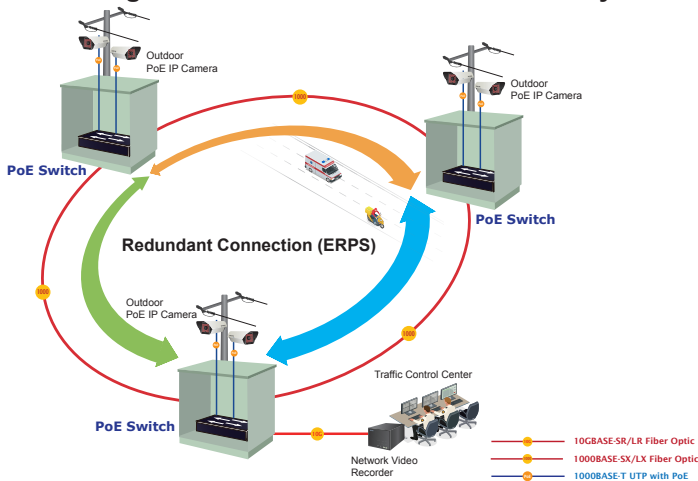
The WGS-4215-Series supports SSHv2 and TLS protocols to provide strong protection against advanced threats. It includes a range of cybersecurity features such as **DHCP Snooping**, **IP Source Guard**, **dynamic ARP Inspection** Protection, **RADIUS** and **TACACS+** user accounts management, SNMPv3 authentication, and so on to complement it as an all-security solution.



### Redundant Ring, Fast Recovery for Critical Network Applications

The WGS-4215-Series supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced **ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)** technology, Spanning Tree Protocol (802.1s MSTP), and **dual power** input system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments. In a certain simple ring network, the recovery time of data link can be as fast as 10ms.

#### ERPS Ring for Video Transmission Redundancy



### Built-in Unique PoE Functions for Powered Devices Management

As it is the managed PoE switch for surveillance, wireless and VoIP networks, the WGS-4215-Series features the following special PoE management functions:

- PD alive check
- Scheduled power recycling
- PoE schedule
- PoE usage monitoring
- PoE extension

### Security

- Authentication
  - Built-in RADIUS client to cooperate with the RADIUS servers
  - RADIUS/TACACS+ login user access authentication
  - DHCP Option 82
- Access control list
  - IPv4/IPv6 IP-based ACL
  - IPv4/IPv6 IP-based ACE
  - MAC-based ACL
  - MAC-based ACE
- MAC security
  - Static MAC
  - MAC filtering
- Port security for source MAC address entries filtering
- DHCP snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- IP source guard prevents IP spoofing attacks
- DoS attack prevention

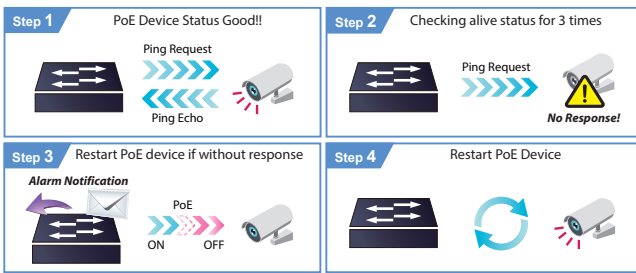
### Management

- IPv4 and IPv6 dual stack management
- Switch management interface
  - Web switch management
  - Console and telnet command line interface
  - SNMP v1 and v2c switch management
  - SSHv2, TLSv1.2 and SNMP v3 secure access
  - 2.4-inch color LCD touch screen (WGS-4215-8P2XV only)
- SNMP Management
  - Four RMON groups (history, statistics, alarms and events)
  - SNMP trap for interface link up and link down notification
- User privilege levels control
- Built-in Trivial File Transfer Protocol (TFTP) client
- Static and DHCP for IP address assignment
- System maintenance
  - Firmware upload/download via HTTP/TFTP
  - Configuration upload/download through HTTP/TFTP
  - Dual images
  - Hardware-based reset button for system reboot or reset to factory default
- SNTP Network Time Protocol

**Intelligent Powered Device Alive Check**

The WGS-4215-Series can be configured to monitor connected PD status in real time via ping action. Once the PD stops working and responding, the WGS-4215-Series will resume the PoE port power and bring the PD back to work. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.

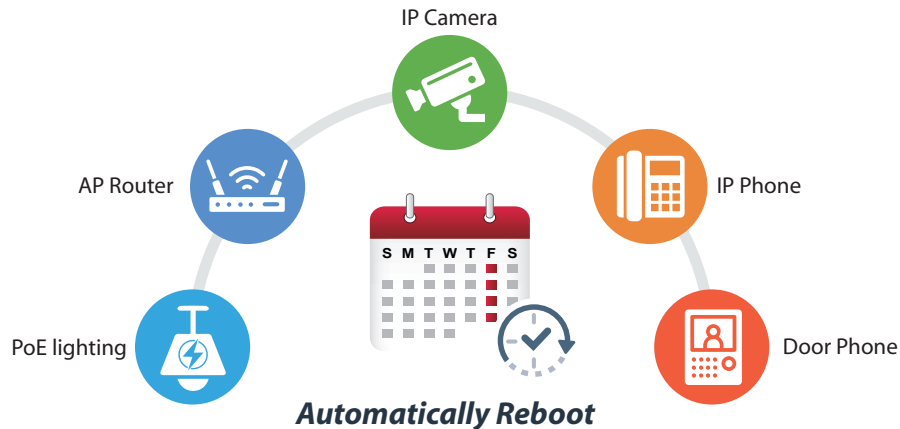
**PD Alive Check**



- Network Diagnostic
  - SFP-DDM (digital diagnostic monitor)
  - Cable diagnostics
  - ICMPv4/ICMPv6 remote ping
- Link Layer Discovery Protocol (LLDP) and LLDP-MED
- Event message logging to remote syslog server
- PLANET Smart Discovery Utility for deployment management
- PLANET NMS, NMSViewerPro and CloudViewerPro for deployment management

**Scheduled Power Recycling**

The WGS-4215-Series allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.

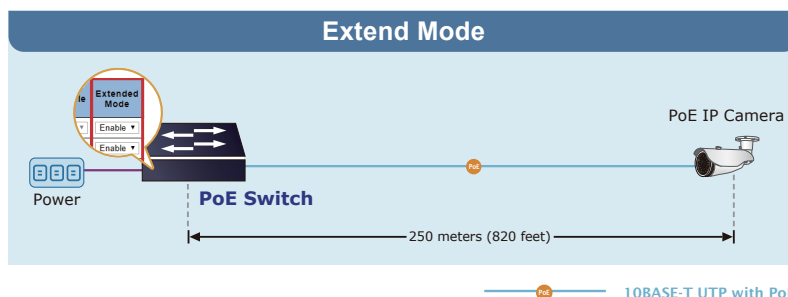


**PoE Schedule for Energy Savings**

Under the trend of energy savings worldwide and contributing to environmental protection, the WGS-4215-Series can effectively control the power supply besides its capability of giving high watts power. The “PoE schedule” function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and budget. It also increases security by powering off PDs that should not be in use during non-business hours.

**802.3at PoE+ Power and Ethernet Data Transmission Distance Extension**

In the “Extend” operation mode, the WGS-4215-Series operates on a per-port basis at 10Mbps duplex operation but can support 20-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, the WGS-4215-Series provides an additional solution for 802.3at/af PoE distance extension, thus saving the cost of Ethernet cable installation.

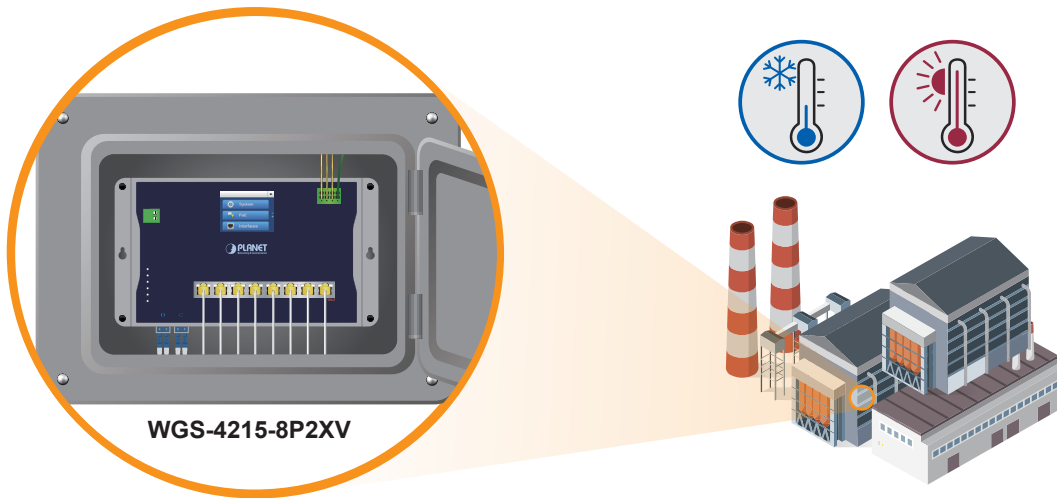


*Innovative Wall-mount Installation*

The WGS-4215-Series is specially designed to be installed in a narrow environment, such as wall enclosure. The compact, flat and wall-mounted design fits easily in any space-limited location. It adopts the user-friendly “Front Access” design, making the installing, cable wiring, LED monitoring and maintenance of the WGS-4215-Series placed in an enclosure very convenient for technicians. The WGS-4215-Series can be installed by **fixed wall mounting**, **magnetic wall mounting** or **DIN rail**, thereby making its usability more flexible.

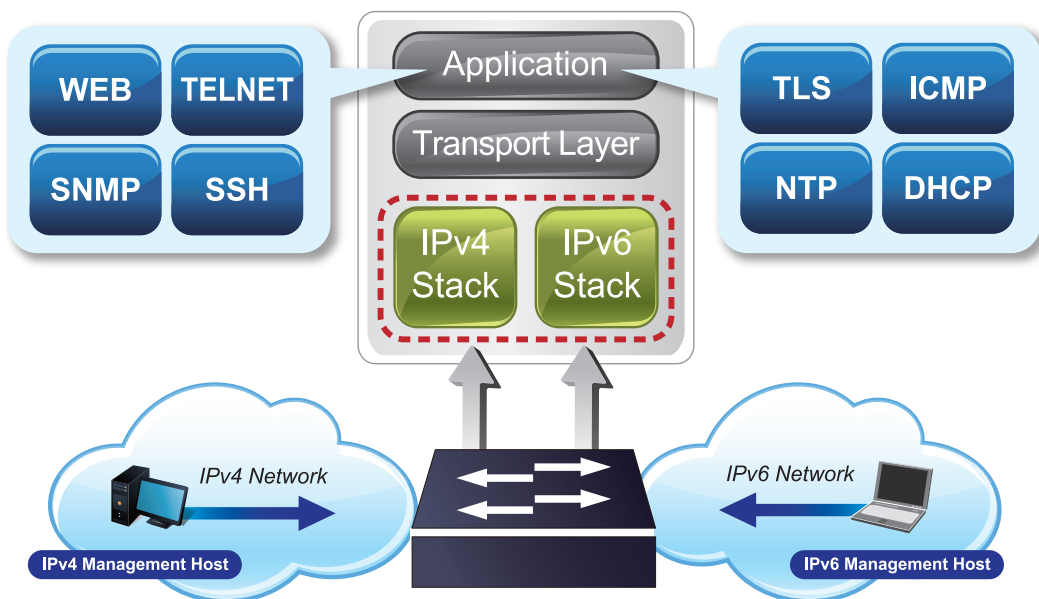
*Environmentally Hardened Design*

With IP30, flat but rugged metal housing protection, the WGS-4215-Series provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets without air conditioner. Being able to operate under the temperature range from -20 to 70 degrees C, the WGS-4215-Series can be placed in almost any difficult environment.



*IPv6/IPv4 Dual Stack Management*

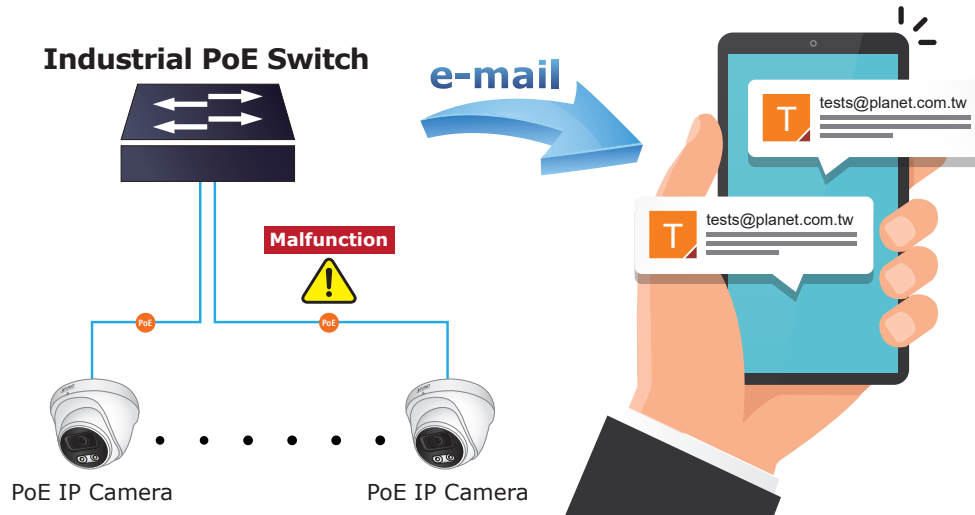
Supporting both IPv6 and IPv4 protocols, the WGS-4215-Series helps the SMBs to step in the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.



*SMTP/SNMP Trap Event Alert*

The WGS-4215-Series provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection, or the rebooting response.

## SMTP/SNMP Trap Event Alert



*Layer 3 IPv4 and IPv6 VLAN Routing for Secure and Flexible Management*

The WGS-4215-8P2X and WGS-4215-8P2XV not only provide ultra high transmission performance, and excellent Layer 2 and Layer 4 technologies, but also Layer 3 IPv4 and IPv6 VLAN routing feature which allows to cross over different VLANs and different IP addresses for the purpose of having a highly-secure, flexibly-managed and simple networking application.

*Robust Layer 2 Features*

The WGS-4215-Series can be programmed for advanced switch management functions such as dynamic port link aggregation, Q-in-Q VLAN, private VLAN, Rapid Spanning Tree Protocol, Layer 2 to Layer 4 QoS, bandwidth control and IGMP snooping. The WGS-4215-Series provides 802.1Q tagged VLAN, and the VLAN groups allowed will be maximally up to 2K. Via aggregation of supporting ports, the WGS-4215-Series allows the operation of a high-speed trunk combining multiple ports. It enables a maximum of up to 2 trunk groups with 2 ports per trunk group, and supports fail-over as well.

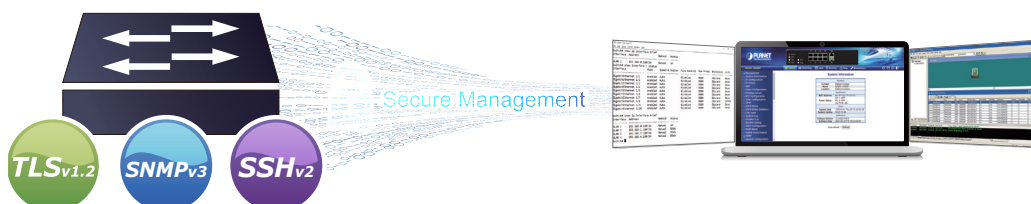
*Efficient Traffic Control*

The WGS-4215-Series is loaded with robust QoS features and powerful traffic management to enhance services to business-class data, voice, and video solutions. The functionality includes broadcast/multicast/unicast **storm control**, per port **bandwidth control**, 802.1p/CoS/IP DSCP QoS priority and remarking. It guarantees the best performance in VoIP and video stream transmission, and empowers the enterprises to take full advantage of the limited network resources.

*Efficient Management*

For efficient management, the WGS-4215-Series is equipped with Command line, Web and SNMP management interfaces.

- With the built-in **Web-based** management interface, the WGS-4215-Series offers an easy-to-use, platform-independent management and configuration facility.
- For **text-based** management, it can be accessed via Telnet and SSHv2 protocol.
- For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.



*Powerful Security from Layer 2 to Layer 4*

The WGS-4215-Series offers comprehensive Layer 2 to Layer 4 **Access Control List (ACL)** for enforcing security to the edge. It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. Its protection mechanism also comprises **802.1X Port-based** and **MAC-based** user and device authentication. With the **private VLAN** function, communication between edge ports can be prevented to ensure user privacy.

*Advanced IP Network Protection*

The WGS-4215-Series also provides **DHCP Snooping**, **IP Source Guard** and **Dynamic ARP Inspection** functions to prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

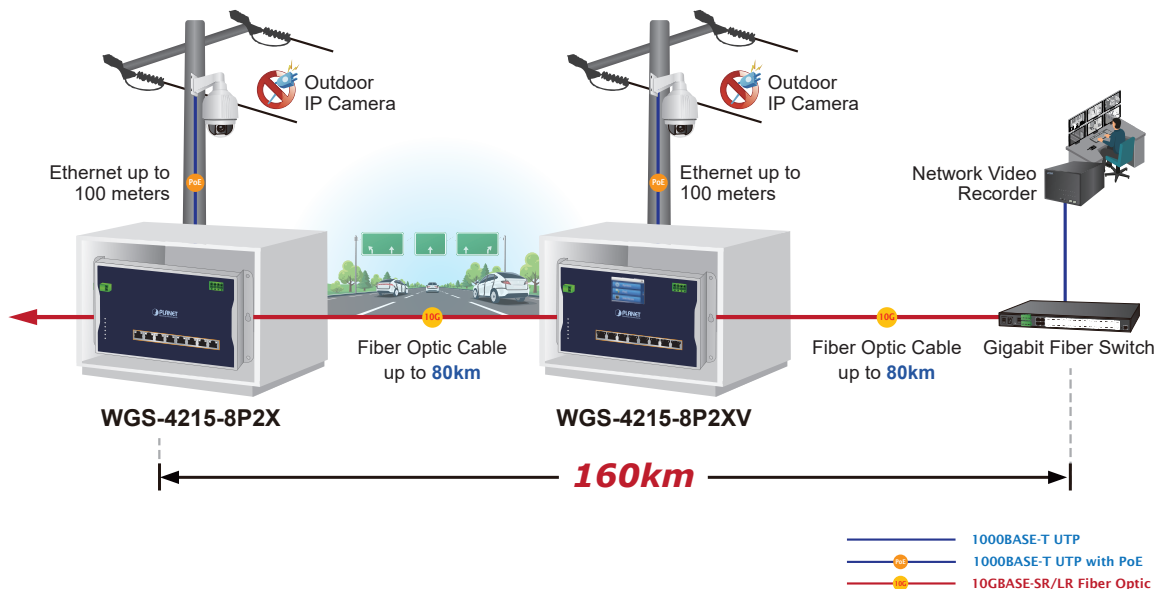
*Modbus TCP provides Flexible Network Connectivity for Factory Automation*

With the supported **Modbus TCP/IP** protocol, the WGS-4215-Series can easily integrate with **SCADA** systems, **HMI** systems and other data acquisition systems in factory floors. It enables administrators to remotely monitor the industrial Ethernet switch's **operating information**, **port information** and **communication status**, thus easily achieving enhanced monitoring and maintenance of the entire factory.

*Flexibility and Extension Solution*

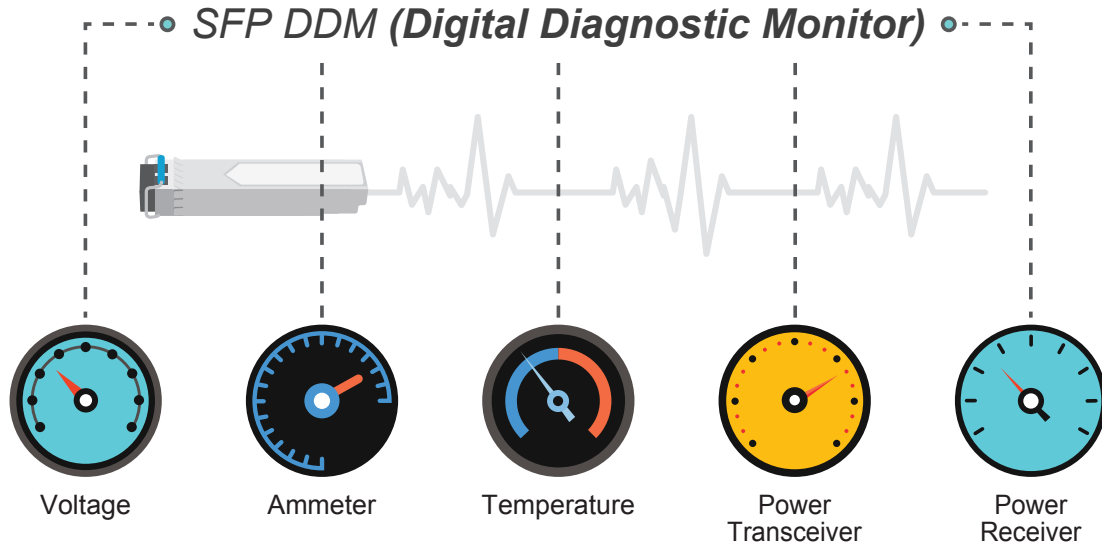
The additional two SFP slots built in the WGS-4215-Series support multi-speed, **100BASE-FX**, **1GBASE-SX/LX**, **2.5GBASE-X** and **10GBASE-X** SFP+ (Small Form-factor Pluggable) fiber-optic modules, meaning the administrator now can flexibly choose the suitable SFP transceiver according to not only the transmission distance but also the transmission speed required. The distance can be extended from 550 meters (multi-mode fiber) to 20/40/80 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

## Extending Ethernet Distance



*Intelligent SFP Diagnosis Mechanism*

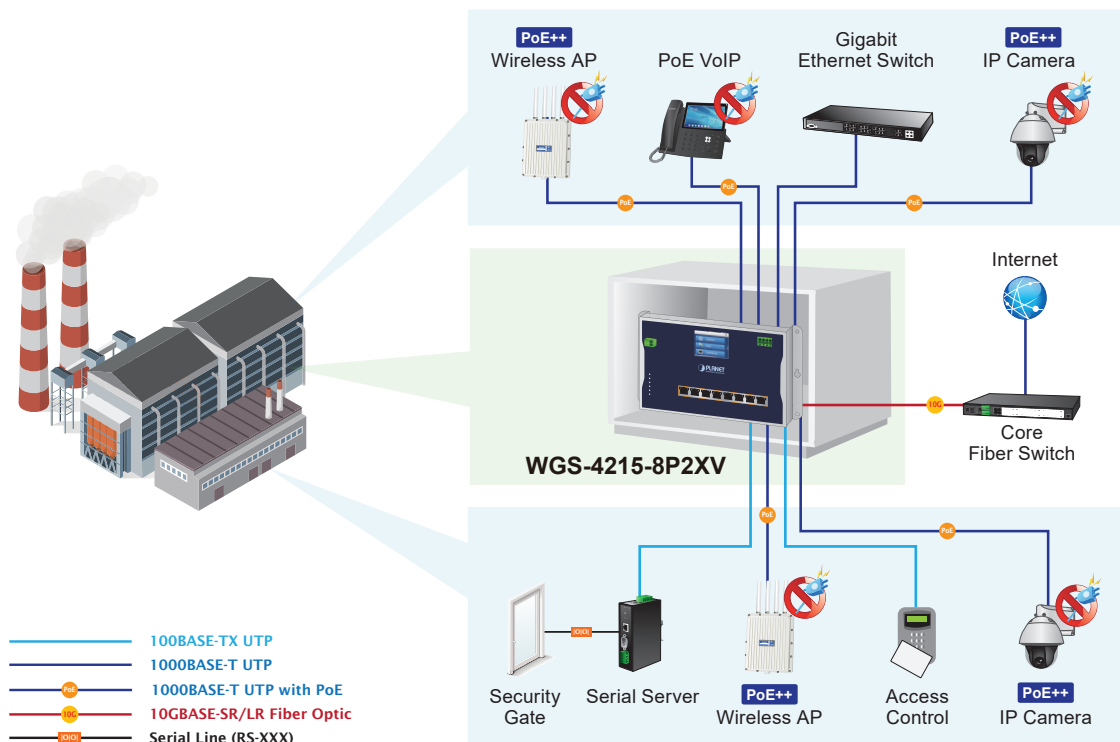
The WGS-4215-Series supports SFP-DDM (Digital Diagnostic Monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.



## Applications

*Security Building Automation Switch*

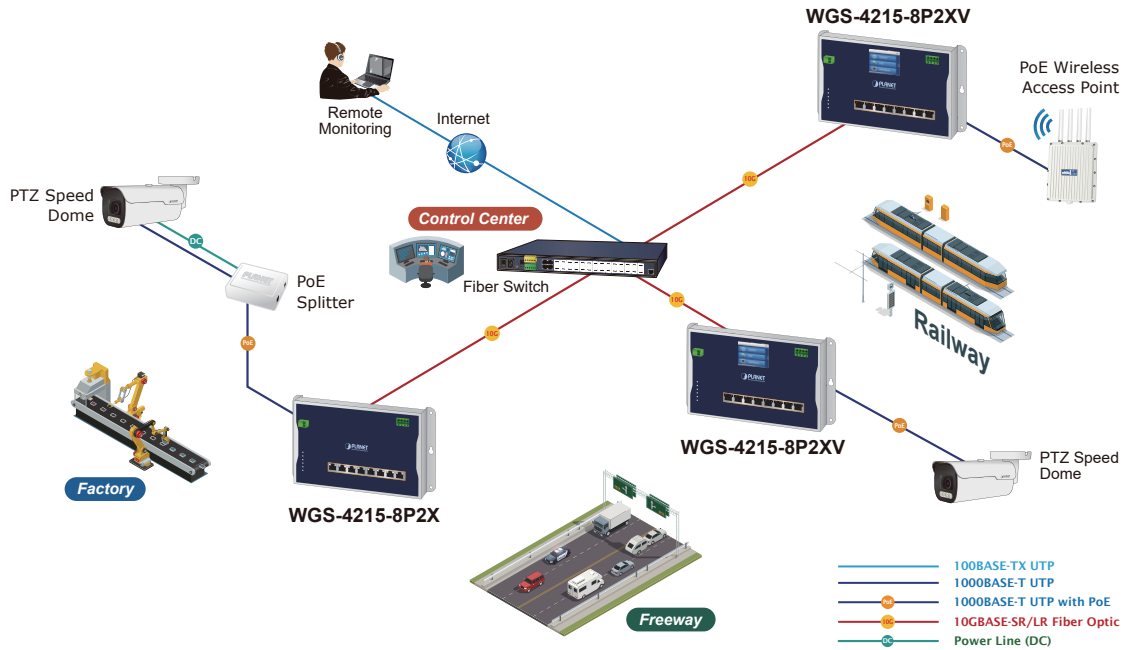
Suitable for buildings where security is strictly to be enforced, the WGS-4215-Series offers a comprehensive Layer 2 to Layer 4 Access Control List (ACL). The switch can restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. With the WGS-4215-Series, a tightly-controlled network can be easily had in no time.





**Different Networks Managed by One Control Center**

Providing up to 8 PoE+, in-line power interfaces, the WGS-4215-Series can centrally manage power supplying to an industrial network system where IP phones, IP cameras, wireless APs and more are built. For instance, 8 PoE IP cameras or wireless access points can be easily installed around the corner in the industrial environment for surveillance demands or for a wireless roaming network. Without the power-socket limitation, the WGS-4215-Series makes the installation of IP cameras and wireless APs easier and more efficient.



## Specifications

| Product                        | WGS-4215-8P2X  | WGS-4215-8P2XV  |
|--------------------------------|--|---|
| <b>Hardware Specifications</b> |  |   |
| Copper Ports                   | 8 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports  |   |
| SFP+ Slots                     | 2 100/1G/2.5G/10GBASE-X SFP+ interfaces  |   |
| PoE Injector Port              | 8 ports with 802.3at PoE+ injector function (Ports 1 to 8)   |   |
| LCD Monitor                    | -  | 2.4-inch TFT color touchscreen  |
| Reset Button                   | < 5 sec: System reboot<br>> 5 sec: Factory Default   |   |
| Connector                      | 4-pin terminal block for power input<br>- Pin 1/2 for Power 1 (Pin 1: V+ / Pin 2: V-)<br>- Pin 3/4 for Power 2 (Pin 3: V+ / Pin 4: V-)<br>2-pin terminal block for event alarm |   |
| Alarm                          | One relay output for power failure. Alarm Relay current carry ability: 1A @ 24V DC   |   |
| Enclosure                      | IP30 metal case  |   |
| Installation                   | Wall-mount   |   |
| Dimensions (W x D x H)         | 245 x 36 x 140 mm  |   |
| Weight                         | 914g   | 930g  |
| Power Requirements             | 48~54V DC<br>(>52V DC for PoE and PoE+ output recommended)<br>Dual power input is required for maximum power loading<br>Maximum current 7.5A                                   |   |
| Power Consumption              | System on  | Max. 15.7 watts/53.57 BTU @54V DC input (288-watt PoE Budget)         |
|                                | Full loading with PoE function   | Max. 344.3 watts/1174.80 BTU @Dual 54V DC input (288-watt PoE Budget) |
| ESD Protection                 | 6KV DC   |   |

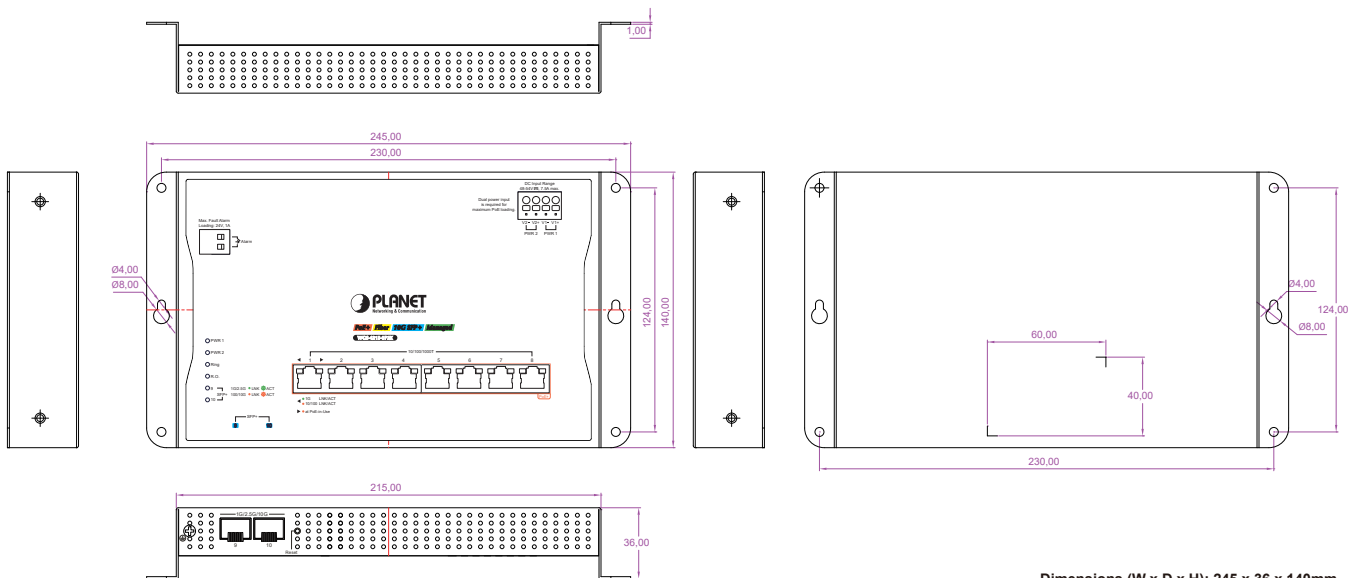
|                                  |   |
|----------------------------------|---|
| LED Indicator                    | <p>System:<br/> PWR 1(Green)<br/> PWR 2 (Green)<br/> Ring (Green)<br/> Ring Owner (Green)<br/> Per 10/100/1000T RJ45 PoE Ports:<br/> 100/1000 LNK/ACT (Green)<br/> 10/100 LNK/ACT (Amber)<br/> 802.3af/at PoE-in-Use (Amber)<br/> Per SFP+ Interface:<br/> 1G/2.5G LNK/ACT (Green)<br/> 10G LNK/ACT (Amber)</p> |
| <b>Switching Specifications</b>  |   |
| Switch Architecture              | Store-and-Forward   |
| Switch Fabric                    | 56Gbps/non-blocking   |
| Throughput (packet per second)   | 41.67Mbps@ 64 bytes packet  |
| Address Table                    | 16K entries, automatic source address learning and aging  |
| Shared Data Buffer               | 12Mbits   |
| Flow Control                     | IEEE 802.3x pause frame for full duplex   |
| Jumbo Frame                      | 12Kbytes  |
| Reset Button                     | < 5 sec: System reboot<br>> 5 sec: Factory default  |
| <b>Power Over Ethernet</b>       |   |
| PoE Standard                     | IEEE 802.3at PoE+ PSE   |
| PoE Power Supply Type            | 802.3at   |
| PoE Power Output                 | Per port 54V DC<br>- End-span mode: maximum 36 watts<br>- Force mode: maximum 36 watts<br>- legacy mode: maximum 36 watts   |
| Power Pin Assignment             | 802.3at PoE: End-span: 1/2(+), 3/6(-)   |
| PoE Power Budget                 | Single power input: 180W maximum (depending on power input)<br>Dual power input: 288W maximum (depending on power input)<br>*Dual power input must be the same as DC voltage, like dual 54V   |
| Number of 802.3at PDs            | 8   |
| <b>PoE Management Functions</b>  |   |
| Enhanced PoE Mode                | System PoE Admin Mode<br>Consumption Mode/Allocation Mode<br>Temperature Threshold  |
| Enhanced PoE Mode                | Standard/Legacy/Force   |
| Active PoE Device Live Detection | Yes   |
| PoE Power Recycling              | Yes, daily or predefined schedule   |
| PoE Schedule                     | 4 schedule profiles   |
| PoE Extended Mode                | Yes, max. up to 250 meters  |
| <b>Layer 2 Function</b>          |   |
| Port Mirroring                   | TX/RX/both<br>Many-to-1 monitor<br>Up to 4 sessions   |
| VLAN                             | 802.1Q tagged VLAN<br>802.1ad Q-in-Q tunneling (VLAN stacking)<br>Protocol VLAN<br>Private VLAN (Protected port)<br>GVRP<br>Management VLAN<br>Up to 256 VLAN groups, out of 4094 VLAN IDs  |
| Link Aggregation                 | IEEE 802.3ad LACP and static trunk<br>Supports 8 groups with 8 ports per trunk  |
| Spanning Tree Protocol           | IEEE 802.1D Spanning Tree Protocol (STP)<br>IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)<br>IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)<br>STP BPDU Guard, BPDU Filtering and BPDU Forwarding   |
| IGMP Snooping                    | IPv4 IGMP snooping v2, v3<br>IGMP querier<br>Up to 256 multicast groups   |

|                              |  |   |
|------------------------------|--|---|
| MLD Snooping                 | IPv6 MLD snooping v1, v2, up to 256 multicast groups   |   |
| QoS                          | 8 mapping IDs to 8 level priority queues<br>- Port number<br>- 802.1p priority<br>- DSCP/IP precedence of IPv4/IPv6 packets<br>Traffic classification based, strict priority and WRR<br>Ingress/Egress Rate Limit per port bandwidth control                     |   |
| Ring                         | Supports ERPS, and complies with ITU-T G.8032<br>Recovery time < 450ms   |   |
| <b>Layer 3 Functions</b>     |  |   |
| IP Interfaces                | Max. 64 VLAN interfaces  |   |
| Routing Table                | Max. 32 routing entries  |   |
| Routing Protocols            | IPv4 hardware static routing<br>IPv6 hardware static routing   |   |
| <b>Security Functions</b>    |  |   |
| Access Control List          | IPv4/IPv6 IP-based ACL/MAC-based ACL<br>IPv4/IPv6 IP-based ACE/MAC-based ACE<br>Max. 256 ACL entries   |   |
| Port Security                | Built-in RADIUS client to co-operate with RADIUS server<br>RADIUS/TACACS+ user access authentication   |   |
| MAC Security                 | IP-MAC port binding<br>MAC filter<br>Static MAC address, max. 256 static MAC entries   |   |
| Enhanced Security            | DHCP Snooping and DHCP Option82<br>STP BPDU guard, BPDU filtering and BPDU forwarding<br>DoS attack prevention<br>ARP inspection<br>IP source guard  |   |
| <b>Management Functions</b>  |  |   |
| Basic Management Interfaces  | Console<br>Web browser<br>Telnet<br>SNMP v1, v2c   |   |
| Secure Management Interfaces | SSHv2, TLS v1.2, SNMP v3   |   |
| System Management            | Firmware upgrade by HTTP/TFTP protocol through Ethernet network<br>Configuration upload/download through HTTP/TFTP<br>LLDP protocol<br>SNTF<br>PLANET Smart Discovery Utility<br>PLANET NMS, NMSViewerPro and CloudViewerPro                                     |   |
| Event Management             | Remote/Local Syslog<br>System log  |   |
| LCD Management               | -  | <ul style="list-style-type: none"> <li>■ IP address, VLAN and QoS configuration</li> <li>■ PoE management and status</li> <li>■ Port management and status, and SFP information</li> <li>■ Troubleshooting: cable diagnostic and remote IP ping</li> <li>■ Maintenance: reboot, factory default and save configuration</li> </ul> |
| SNMP MIBs                    | RFC 1213 MIB-II<br>RFC 1215 Generic Traps<br>RFC 1493 Bridge MIB<br>RFC 2674 Bridge MIB Extensions<br>RFC 2737 Entity MIB (Version 2)<br>RFC 2819 RMON (1, 2, 3, 9)<br>RFC 2863 Interface Group MIB<br>RFC 3635 Ethernet-like MIB<br>RFC 3621 Power Ethernet MIB |   |
| <b>Standards Conformance</b> |  |   |
| Regulatory Compliance        | FCC Part 15 Class A, CE  |   |

|                        |   |
|------------------------|---|
| Standards Compliance   | IEEE 802.3 10BASE-T                         |
|                        | IEEE 802.3u 100BASE-TX/100BASE-FX           |
|                        | IEEE 802.3z Gigabit SX/LX                   |
|                        | IEEE 802.3ab Gigabit 1000BASE-T             |
|                        | IEEE802.3ae 10Gb/s Ethernet                 |
|                        | IEEE 802.3x Flow Control and Back Pressure  |
|                        | IEEE 802.3ad Port Trunk with LACP           |
|                        | IEEE 802.1D Spanning Tree Protocol          |
|                        | IEEE 802.1w Rapid Spanning Tree Protocol    |
|                        | IEEE 802.1s Multiple Spanning Tree Protocol |
|                        | IEEE 802.1p Class of Service                |
|                        | IEEE 802.1Q VLAN Tagging                    |
|                        | IEEE 802.1ab LLDP                           |
|                        | IEEE 802.3af Power over Ethernet            |
|                        | IEEE 802.3at Power over Ethernet Plus       |
|                        | IEEE 802.3az for Energy-Efficient Ethernet  |
|                        | RFC 768 UDP                                 |
| RFC 783 TFTP           |   |
| RFC 791 IP             |   |
| RFC 792 ICMP           |   |
| RFC 2068 HTTP          |   |
| RFC 1112 IGMP v1       |   |
| RFC 2236 IGMP v2       |   |
| RFC 3376 IGMP v3       |   |
| RFC 2710 MLD v1        |   |
| RFC 3810 MLD v2        |   |
| ITU-T G.8032 ERPS Ring |   |
| <b>Environment</b>     |   |
| Operating Temperature  | Temperature: -40 ~ 75 degrees C             |
| Storage Temperature    | Temperature: -40 ~ 75 degrees C             |
| Humidity               | Relative Humidity: 5 ~ 95% (non-condensing) |

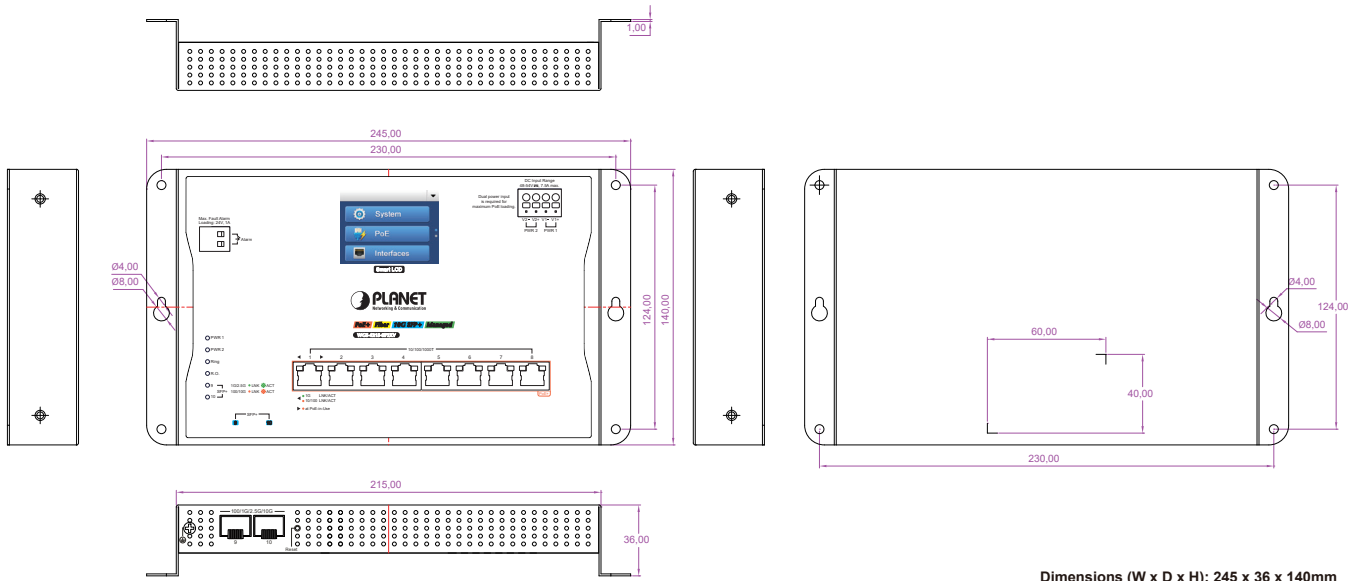
## Dimensions

### ■ WGS-4215-8P2X



Dimensions (W x D x H): 245 x 36 x 140mm

■ WGS-4215-8P2XV



Dimensions (W x D x H): 245 x 36 x 140mm

## Ordering Information

|                |   |
|----------------|---|
| WGS-4215-8P2XV | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10G SFP+ Wall-mount Managed Ethernet Switch with LCD Touch Screen |
| WGS-4215-8P2X  | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10G SFP+ Wall-mount Managed Ethernet Switch                       |

## Related Products

|                 |   |
|-----------------|---|
| WGS-6325-8UP2X  | Industrial L3 4-Port 2.5G 802.3bt PoE + 4-Port 10/100/1000T 802.3bt PoE + 2-Port 10G SFP+ Wall-mount Managed Switch   |
| WGS-5225-8UP2SV | Industrial L2+ 8-Port 10/100/1000T 802.3bt PoE + 2-Port 1G/2.5G SFP Wall-mount Managed Switch with LCD Touch Screen   |
| WGS-5225-8P2SV  | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Wall-mount Managed Switch with LCD Touch Screen |
| WGS-5225-8P2S   | Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Wall-mount Managed Switch                       |
| WGS-5225-8T2SV  | Industrial L2+ 8-Port 10/100/1000T + 2-Port 100/1000X SFP Wall-mount Managed Switch with LCD Touch Screen             |

## Available Modules

|                          |                            |
|--------------------------|----------------------------|
| MTB Series Transceiver   | 10GBASE-X Transceiver      |
| MGB2G-Series Transceiver | 2500BASE-SX/LX Transceiver |
| MGB-Series Transceiver   | 1000BASE-SX/LX Transceiver |
| MFB-Series Transceiver   | 100BASE-FX Transceiver     |

## Related Power Supply

|            |   |
|------------|---|
| PWR-480-48 | 48V, 480W DIN-rail Power Supply (NDR-480-48, adjustable 48-56V DC Output) |
| PWR-240-48 | 48V, 240W DIN-rail Power Supply (NDR-240-48, adjustable 48-56V DC Output) |

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### WGS-4215-8P2X/WGS-4215-8P2XV

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