

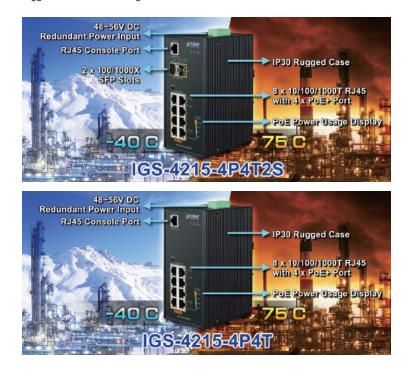
IGS-4215-4P4T IGS-4215-4P4T2S

Industrial L2/L4 Managed Gigabit Switch with 4-Port 802.3at PoE+



Ideal, Cost-effective, Manageable PoE Solution for Hardened Environment

Designed to be installed in heavy industrial demanding environments, the IGS-4215 series are the new generation of PLANET Industrial-grade, DIN-rail type L2/ L4 Managed Gigabit PoE+ Switch featuring **PLANET intelligent PoE** functions to improve the availability of critical business applications. It provides **IPv6/IPv4 dual stack management** and built-in **L2/L4 Gigabit switching engine** along with **4 10/100/1000BASE-T** ports featuring **30-watt 802.3at PoE+**, **4 additional Gigabit copper ports** and another **2 extra 100/1000BASE-X SFP fiber slots (IGS-4215-4P4T2S)** for data and video uplink. The IGS-4215 series are able to operate reliably, stably and quietly in any environment without affecting its performance. It comes with a total power budget of up to **144 watts** for different kinds of PoE applications and operating temperature ranging from **-40 to 75 degrees C** in a rugged IP30 metal housing.



Physical Port

- 8-port 10/100/1000BASE-T Gigabit RJ45 copper with 4-port IEEE 802.3at/af PoE Injector (Port-1 to Port-4)
- 2 100/1000BASE-X mini-GBIC/SFP slots, SFP type auto detection (For IGS-4215-4P4T2S)
- RJ45 console interface for switch basic management and setup

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 4 ports of 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 250m in extend mode
- PoE management
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE port power feeding priority
 - Per PoE port power limitation
 - PD classification detection
 - PD alive-check
 - PoE schedule

Industrial Case & Installation

- IP30 aluminum metal case protection
- · DIN-rail and wall-mount design
- · Supports -40 to 75 degrees C operating temperature
- Supports ESD 6KV DC Ethernet protection
- Redundant power design
 - 48V~56V DC wide power input

Switching

- Hardware based 10/100Mbps (half/full duplex), and 1000Mbps (full duplex) mode, flow control and autonegotiation and auto MDI/MDI-X
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation



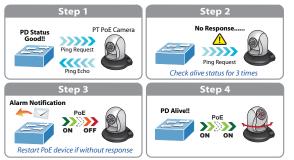
Built-in Unique PoE Functions for Powered Devices Management

As it is the managed PoE switch for surveillance, wireless and VoIP networks, the IGS-4215 series feature the following special PoE management functions:

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

Intelligent Powered Device Alive Check

The IGS-4215 series can be configured to monitor connected PD (Powered Device) status in real time via ping action. Once the PD stops working and responding, the IGS-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.



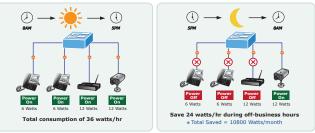
Scheduled Power Recycling

The IGS-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 Saving

Under the trend of energy saving worldwide and contributing to environmental protection, the IGS-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.



- 8K MAC address table size
- 10K jumbo frame
- · Automatic address learning and address aging
- Supports CSMA/CD protocol

Layer 2 Features

- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Provider bridging (VLAN Q-in-Q, IEEE 802.1ad) support
 - Protocol VLAN
 - Voice 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 4 trunk groups, up to 4 ports per trunk group
- · Provides port mirror (many-to-1)
- Loop protection to avoid broadcast loops

Quality of Service

- · Ingress/Egress Rate Limit per port bandwidth control
- 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

Security

- Storm Control support
 - Broadcast/unknown unicast/unknown multicast
- Authentication
 - IEEE 802.1X port-based network access authentication
 - Built-in RADIUS client to co-operate with the RADIUS servers
 - DHCP Option 82
 - RADIUS/TACACS+ authentication



PoE Usage Monitoring and Intelligent LED Indicator for Real-time PoE Usage

Via the power usage chart in the web management interface, the IGS-4215 series enables the administrator to monitor the status of the power usage of the connected PDs in real time. Thus, it greatly enhances the management efficiency of the facilities. Moreover, the IGS-4215 series helps users to monitor the current status of PoE power usage easily and efficiently via its advanced LED indication. Called "PoE Power Usage", the front panel of the IGS-4215 series has four LED indicators of different power usages.







Environmentally Hardened Design

With the IP30 aluminum industrial case, the IGS-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 -40 to 75 degrees C, the IGS-4215 series can be placed in almost any difficult environment.

IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the IGS-4215 series helps the system integrators to step in the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 network is set up.

· Access Control List

- IPv4/IPv6 IP-based ACL
- IPv4/IPv6 IP-based ACE
- MAC-based ACI
- MAC-based ACF
- 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
- · SSH / SSL

Management

- · IPv4 and IPv6 dual stack management
- · Switch Management Interface
 - IPv4/IPv6 Web switch management
 - Console and Telnet Command Line Interface
 - SNMP v1, v2c, and v3
- SSH and SSL secure access
- · 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
 - Hardware reset button for system reboot or reset to factory default
 - Dual images
- SNTP Network Time Protocol
- Cable diagnostics
- · Link Layer Discovery Protocol (LLDP) Protocol and LLDP-MED
- · SNMP trap for interface Link Up and Link Down notification
- · Event message logging to remote syslog server
- · Four RMON groups (history, statistics, alarms and events)
- · PLANET Smart Discovery Utility



Robust Layer 2 Features

The IGS-4215 series can be programmed for advanced switch management functions such as dynamic port link aggregation, 802.1Q VLAN, Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP), Loop and BPDU Guard, IGMP Snooping, and MLD Snooping. Via the link aggregation, the IGS-4215 series allows the operation of a high-speed trunk to combine with multiple ports such as a 16Gbps fat pipe, and supports fail-over as well. Also, the Link Layer Discovery Protocol (LLDP) is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.



Efficient Traffic Control

The IGS-4215 series are 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.

Friendly and Secure Management

For efficient management, the IGS-4215 series are equipped with **web**, **Telnet** and **SNMP** management interfaces. With the built-in web-based management interface, the IGS-4215 series offer an easy-to-use, platform-independent management and configuration facility. By supporting the standard SNMP, the switch can be managed via any standard management software. For text-based management, the switch can be accessed via Telnet. Moreover, the IGS-4215 series offer secure remote management by supporting **SSH**, **SSL** and **SNMP** v3 connections which encrypt the packet content at each session.



Advanced Network Security

PLANET IGS-4215 series offer a comprehensive **IPv4/IPv6** Layer 2 to Layer 4 **Access Control List (ACL)** for enforcing security to the edge. Its protection mechanism also comprises **802.1X port-based** user and device authentication, which can be deployed with RADIUS to ensure the port level security and block illegal users. With the **protected port** function, communication between edge ports can be prevented to guarantee user privacy. Furthermore, the IGS-4215 series also provide **DHCP snooping**, **IP source guard** and dynamic **ARP inspection** functions to prevent IP snooping from attack and discarded ARP packets with invalid MAC address. The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

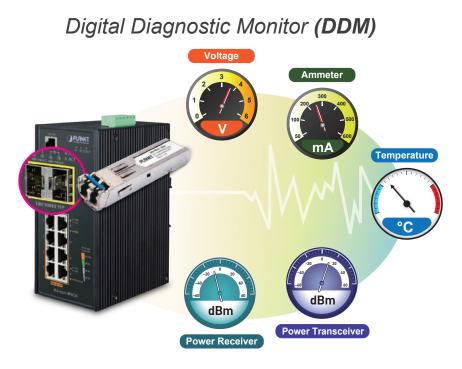
Flexibility and Long-distance Extension Solution

The two mini-GBIC slots built in the IGS-4215-4P4T2S support SFP auto-detection and dual speed as it features **100BASE-FX** and **1000BASE-SX/LX SFP** (Small Form-factor Pluggable) fiber transceivers to uplink to backbone switch and monitoring center in long distance. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and up to 10/20/30/40/50/60/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.



Intelligent SFP Diagnosis Mechanism

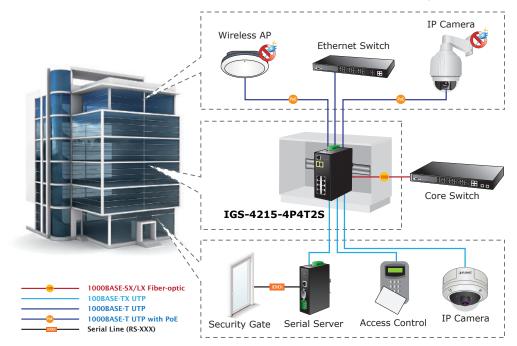
The IGS-4215-4P4T2S supports SFP-DDM (**Digital Diagnostic Monitor**) function that greatly helps network administrator to easily monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.



Applications

Industrial-grade PoE Switch for Building Automation & Security

Suitable for buildings where security is strictly to be enforced, the IGS-4215 series, with 4 PoE, in-line power interfaces, can easily build a power centrally controlled for an IP phone system, IP surveillance system, and wireless AP group in the harsh Industrial environment. For instance, 4 PoE IP cameras or PoE wireless APs can be easily installed for surveillance demands or a wireless roaming environment in the industrial area can be built. Without the power-socket limitation, the IGS-4215 series makes the installation of IP cameras or wireless APs easier and more efficiently.





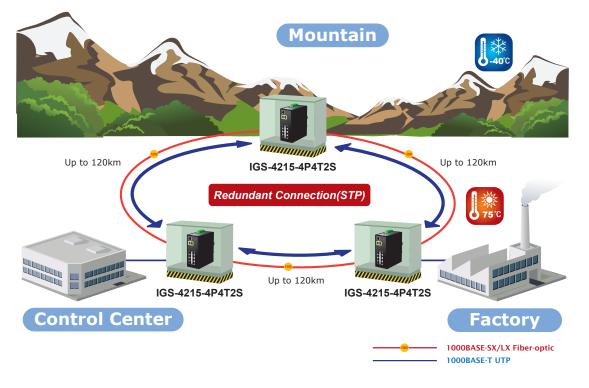
Perfect Integration Solution for IP PoE Camera and NVR System

The IGS-4215-4P4T2S provides 4 10/100/1000Mbps 802.3at PoE ports which can offer sufficient PoE power to 4 PoE IP cameras at the same time. In addition, with the 2 100/1000BASE-X SFP interfaces, the IGS-4215-4P4T2S can connect to a core fiber switch and send video streams to an NVR and monitoring center. Through the high-performance switch architecture, the IGS-4215-4P4T2S facilitates the recorded video files from the 4 PoE IP cameras to be saved in the NVR systems. Furthermore, the NVR systems can be controlled and monitored both in the local LAN and the remote site via Internet. The IGS-4215-4P4T2S undoubtedly brings an ideal secure surveillance system at a lower total cost.



Multiple Spanning Tree Protocol with PoE Manageable Making Data Transmit Uninterrupted

The GS-4215-4P4T2S features strong rapid self-recovery capability to prevent interruptions and external intrusions. It **incorporates Multiple Spanning Tree Protocol (802.1s MSTP)** into customer's automation network to enhance system reliability and uptime. Applying the IEEE 802.3at Power over Ethernet standard, the GS-4215-4P4T2S can directly connect with any IEEE 802.3at end-nodes like PTZ (Pan, Tilt & Zoom) network cameras and speed dome cameras. The GS-4215-4P4T2S can easily help system integrators with the available network infrastructure to build wireless AP, IP camera and VoIP systems where power can be centrally-controlled.





Specifications

| Product | IGS-4215-4P4T | IGS-4215-4P4T2S | |
|--------------------------------|---|---|--|
| Hardware Specifications | | | |
| Copper Ports | 8 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports | | |
| SFP/mini-GBIC Slots | NA | 2 1000BASE-SX/LX/BX SFP interfaces (Port-9 and Port-10) Compatible with 100BASE-FX SFP | |
| PoE Injector Port | 4 port with 802.3af/802.3at PoE injector function (Po | rt-1 to Port-4) | |
| Console | 1 x RS232-to-RJ45 serial port (115200,8, N, 1) | | |
| Switch Architecture | Store-and-Forward | | |
| Switch Fabric | 16Gbps/non-blocking | 20Gbps/non-blocking | |
| Switch Throughput@64 bytes | 11.9Mpps @64 bytes | 14.8Mpps @64 bytes | |
| MAC Address Table | 8K entries | · | |
| Shared Data Buffer | 4.1 megabits | | |
| | IEEE 802.3x pause frame for full-duplex | | |
| Flow Control | Back pressure for half-duplex | | |
| Jumbo Frame | 10 Kbytes | | |
| | < 5 sec: System reboot | | |
| Reset Button | > 5 sec: Factory default | | |
| LED | 3 x LED for System and Power: Green: DC Power 1 Green: DC Power 2 Green: Power Fault 2 x LED for PoE Copper Port (Port-1~Port-4): Green: LNK/ACT Orange: PoE -in-use 2 x LED for 10/100/1000T Copper Port (Port-5~Port-Green: LNK/ACT Orange: 1000Mbps 2 x LED for per mini-GBIC interface (Port-9 and Port Green: LNK/ACT Orange: 1000Mbps 4 x LED for PoE Power Usage (W) Orange: 30, 60, 90 and 120W | | |
| Connector | Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for | r Power 2 | |
| Alarm | One relay output for power failure. Alarm relay current | nt carry ability: 1A @ 24V AC | |
| Power Requirements | 48~56V DC, 3.5A (max.) | | |
| Power Consumption/ Dissipation | 5.04 watts, 17.1BTU (Standby without PoE function) 7.28 watts, 23 BTU (Full loading without PoE function) 151.28 watts, 516.1 BTU (Full loading with PoE function) | 5.04 watts, 17.1BTU (Standby without PoE function) 9.52 watts, 32.4 BTU (Full loading without PoE function) 153.52 watts, 523.8 BTU (Full loading with PoE function) | |
| Dimensions (W x D x H) | 161 x 107 x 72 mm | | |
| Weight | 1001g | 1004g | |
| ESD Protection | 6KV DC | · | |
| Enclosure | IP30 aluminum case | | |
| Installation | DIN-rail kit and wall-mount ear | | |
| Power over Ethernet | | | |
| PoE Standard | IEEE 802.3af/802.3at Power over Ethernet PSE | | |
| PoE Power Supply Type | End-span | | |
| PoE Power Supply Type | IEEE 802.3af Standard - Per port 48V~56V DC (depending on the power sup IEEE 802.3at Standard - Per port 50V~56V DC (depending on the power sup | | |
| Power Pin Assignment | 1/2(+), 3/6(-) | | |
| PoE Power Budget | | | |
| | 144 watts (depending on power input) | | |
| Max. Number of Class 2 PDs | 4 | | |
| Max. Number of Class 3 PDs | 4 | | |
| Max. Number of Class 4 PDs | 4 | | |



Layer 2 Functions

| Port Mirroring TX/RX/Boh Many-to-1 monitor Wary-to-1 monitor 802:10 tagged-based VLAN Up to 256 VLAN groups, out of 4094 VLAN IDs 802:104 tagged-based VLAN Private VLAN (Potected port) GVRP Management VLAN Link Aggregation IEEE 802:30 LACP and static trunk Supports 4 groups with 4 ports per trunk Else Root 20 LAN Private VLAN IEEE 802:10 Spanning Tree Protocol (STP) IEEE 802:10 Spanning Tree Protocol (STP) IGMP Snooping IPV4 ICMP snooping v2. v3 ICMP Snooping MLD Snooping IPV4 ICMP snooping v2. v3 ICMP Snooping V2. v3 ICMP Snooping MLD Snooping IPV4 ICMP IPoased ACE/IMAC-based ACE IPV4/IPv6 IP-based ACE/IMAC-based ACE CooS 8 mapping IDs to 8 level priority queues - 982:10 priority - 982:10 pri | |
|--|--|
| VLANUp to 256 'UAN groups, out of 4094 VLAN IDS 802.1 ad Quin-Q tunneling (VLAN stacking) Voice VLAN Protocol VLAN Protocol VLAN Protocol VLAN Protocol VLANLink AggregationEEE 802.1 ad LACP and static trunk Supports 4 groups with 4 ports per trunkSpanning Tree ProtocolEEE 802.1 ad LACP and static trunk Supports 4 groups with 4 ports per trunkSpanning Tree ProtocolIEEE 802.1 D Spanning Tree Protocol (NSTP) IEEE 802.1 Shultiple Spanning Tree Protocol (MSTP) STP BPDU Guard, BPDU Fletring and BPDU ForwardingIGMP SnoopingIPv4 IGMP snooping v2, v3 IGMP querer Up to 256 multicast groupsMLD SnoopingIPv4 IPv6 IP-based ACL/MAC-based ACE IPv4/IPv6 IP-based ACL/MAC-based ACERocess Control ListB mapping IDs to 8 level priority queues - 802.1 p priority - DSCP/IP precedence of IPv4/IPv6 pockets Trific classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth controlSecurityEEE 802.1 X port-based adthentication IPv4/IPv6 IIP-based adthentication - 802.1 p priority - DSCP/IP precedence of IPv4/IPv6 probased ace North and WRR Ingress/Egress Rate Limit per port bandwidth controlSecurityEEE 802.1 K port-based adthentication IPv4/RC per thinding NutLine RADIUS Stream Strict Address STP BPDU guard, BPDU flitering and BPDU forwarding DoS attack prevention A RAPS DDS attack prevention A RAPS DDS attack prevention A RAPS DDS attack prevention A RAPS DDS attack prevention A RAPS | |
| Link Aggregation Supports 4 groups with 4 ports per trunk Spanning Tree Protocol IEEE 802.1 b Spanning Tree Protocol (RSTP) IEEE 802.1 w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1 w Rapid Spanning Tree Protocol (RSTP) STP BPDU Guard, BPDU Filtering and BPDU Forwarding IPv4 IGMP snooping v2, v3 IGMP Snooping IPv4 IGMP snooping v2, v3 MLD Snooping IPv4 IGMP snooping v2, v3, up to 256 multicast groups MLD Snooping IPv4/IPv6 IP-based ACL/MAC-based ACL Access Control List IPv4/IPv6 IP-based ACL/MAC-based ACE Rooping 8 mapping IDs to 8 level priority queues - Port number - 802.1 p priority - S0C2.1 p priority - DSCP/IP precedence of IPv4/IPv6 packets Traffic classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth control Built in RADIUS Client to cooperate with RADIUS server RADIUS/TACACS+ authentication Built in RADIUS Scient to ACC address DHCP snooping and DHCP Option82 Static MAC address DHCP snooping and BPDU forwarding ARP inspection ARP inspection | |
| Spanning Tree ProtocolIEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1w Rapid Spanning Tree Protocol (MSTP) STP BPDU Guard, BPDU Filtering and BPDU ForwardingIGMP SnoopingIPv4 IGMP snooping v2, v3 IGMP querier Up to 256 multicast groupsMLD SnoopingIPv6 MLD snooping v2, v3, up to 256 multicast groupsAccess Control ListIPv4/IPv6 IP-based ACL/MAC-based ACL IPv4/IPv6 IP-based ACEQoSBamping IDs to 8 level priority queues - Port number - 802.1p priority - DSCP/IP precedence of IPv4/IPv6 packets Traffic classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth controlSecurityIEEE 802.1x port-based authentication Built-in RADIUS (Int to cooperate with RADIUS server RADIUS/TACACS+ authentication IP-MAC port binding MAC filtering Static MAC address DHCP snooping and DHCP Option82 STB PDU guard, BPDU filtering and BPDU forwarding DS attack prevention ARP inspection | |
| IGMP SnoopingIGMP querier Up to 256 multicast groupsMLD SnoopingIPv6 MLD snooping v2, v3, up to 256 multicast groupsAccess Control ListIPv4/IPv6 IP-based ACL/MAC-based ACL IPv4/IPv6 IP-based ACE/MAC-based ACEQoS8 mapping IDs to 8 level priority queues - Port number - 802.1p priority - DSCP/IP precedence of IPv4/IPv6 packets Traffic classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth controlSecurityIEEE 802.1X port-based authentication Built-in RADIUS client to cooperate with RADIUS server RADIUS/TACACS+ authentication IP-MAC port binding MAC filtering Static MAC address DHCP snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding DOS attack prevention ARP inspection | |
| Access Control List IPv4/IPv6 IP-based ACL/MAC-based ACL IPv4/IPv6 IP-based ACE/MAC-based ACE 8 mapping IDs to 8 level priority queues - Port number - 802.1p priority - BOCP/IP precedence of IPv4/IPv6 packets Traffic classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth control IEEE 802.1X port-based authentication Built-in RADIUS client to cooperate with RADIUS server RADIUS/TACACS+ authentication IP-MAC port binding MAC filtering Static MAC address DHCP snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding Dos attack prevention ARP inspection ARP inspection | |
| Access Control List IPv4/IPv6 IP-based ACE/MAC-based ACE QoS 8 mapping IDs to 8 level priority queues - Pott number - 802.1p priority - DSCP/IP precedence of IPv4/IPv6 packets Traffic classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth control IEEE 802.1X port-based authentication Built-in RADIUS client to cooperate with RADIUS server RADIUS/TACACS+ authentication IP-MAC port binding MAC filtering Static MAC address DHCP snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding DoS attack prevention ARP inspection | |
| QoS - Port number - 802.1p priority - DSCP/IP precedence of IPv4/IPv6 packets Traffic classification based, strict priority and WRR Ingress/Egress Rate Limit per port bandwidth control IEEE 802.1X port-based authentication Built-in RADIUS client to cooperate with RADIUS server RADIUS/TACACS+ authentication IP-MAC port binding MAC filtering Static MAC address DHCP snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding DoS attack prevention ARP inspection ARP inspection | |
| Built-in RADIUS client to cooperate with RADIUS server RADIUS/TACACS+ authentication IP-MAC port binding MAC filtering Static MAC address DHCP snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding DoS attack prevention ARP inspection | |
| Storm control support - Broadcast/Unknown multicast | |
| Management Functions | |
| Basic Management Interfaces Web browser; Console; Telnet; SNMP v1, v2c, v3 Firmware upgrade by HTTP/TFTP protocol through Ethernet network Configuration upload/download through HTTP/TFTP Remote/local syslog System log LLDP protocol SNTP PLANET Smart Discovery Utility | |
| Secure Management Interfaces SSH, SSL, SNMP v3 | |
| SNMP MIBs RFC 1213 MIB-II RFC 1215 Generic Traps RFC 1493 Bridge MIB RFC 2674 Bridge MIB Extensions RFC 2737 Entity MIB v2 RFC 2819 RMON (1, 2, 3, 9) RFC 2863 Interface Group MIB RFC 3635 Ethernet-like MIB | |
| Standards Conformance | |
| Regulatory Compliance FCC Part 15 Class A, CE | |
| Stability Testing IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration) | |

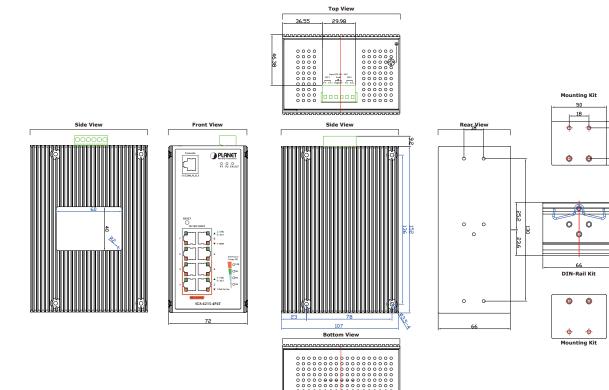


| | IEEE 802.3 10BASE-T | |
|----------------------|---|--|
| | IEEE 802.3u 100BASE-TX/100BASE-FX | |
| | IEEE 802.3z Gigabit SX/LX (IGS-4215-4P4T2S) | |
| | IEEE 802.3ab Gigabit 1000BASE-T | |
| | IEEE 802.3x Flow Control and Back Pressure | |
| | IEEE 802.3ad Port Trunk with LACP | |
| | IEEE 802.1D 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 802.1x Port Authentication Network Control | |
| Standarda Camplianaa | IEEE 802.1ab LLDP | |
| Standards Compliance | IEEE 802.3af Power over Ethernet | |
| | IEEE 802.3at Power over Ethernet Plus PSE | |
| | IEEE 802.3az for Energy-Efficient Ethernet | |
| | RFC 768 UDP | |
| | RFC 793 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 | |
| Environment | | |
| Oracetian | Temperature: -40 ~ 75 degrees C | |
| Operating | Relative Humidity: 5 ~ 95% (non-condensing) | |
| Character | Temperature: -40 ~ 85 degrees C | |
| Storage | Relative Humidity: 5 ~ 95% (non-condensing) | |

Drawing

IGS-4215-4P4T

■ Dimensions (W x D x H) : 161 x 101 x 72mm



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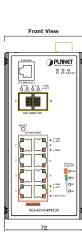


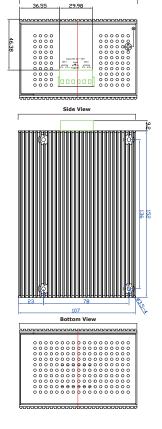
Drawing

IGS-4215-4P4T2S

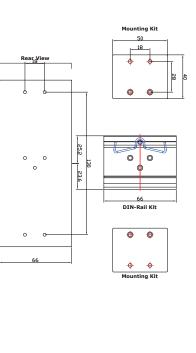
■ Dimensions (W x D x H) : 161 x 101 x 72mm







Top View



Dimensions (unit = mm)

Ordering Information

| IGS-4215-4P4T2S | Industrial 4-Port 10/100/1000T 802.3at PoE + 4-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch (-40~75 degrees C) |
|-----------------|---|
| IGS-4215-4P4T | Industrial 4-Port 10/100/1000T 802.3at PoE + 4-Port 10/100/1000T Managed Switch (-40~75 degrees C) |

Related Products

| IGS-4215-8P2T2S | Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch |
|-----------------|--|
| 193-4213-072123 | (-40~75 degrees C) |

Accessories

| PWR-120-48 | 120W 48V DC Single Output Industrial DIN-rail Power Supply (-10 ~ 60 degrees C) |
|------------|---|
| PWR-240-48 | 240W 48V DC Single Output Industrial DIN-rail Power Supply (-10 ~ 60 degrees C) |
| PWR-480-48 | 480W 48V DC Single Output Industrial DIN-rail Power Supply (-25 ~ 70 degrees C) |



Related PoE Products

| POE-162S | IEEE 802.3at Gigabit High Power over Ethernet Splitter |
|----------|--|
| POE-E201 | IEEE 802.3at Power over Ethernet Extender |

Available 1000Mbps Modules (For IGS-4215-4P4T2S)

| MGB-GT | SFP-Port 1000BASE-T Module |
|-----------|--|
| MGB-SX | SFP-Port 1000BASE-SX mini-GBIC module - 220/550m |
| MGB-SX2 | SFP-Port 1000BASE-SX mini-GBIC module – 2km |
| MGB-LX | SFP-Port 1000BASE-LX mini-GBIC module - 10km |
| MGB-L30 | SFP-Port 1000BASE-LX mini-GBIC module - 30km |
| MGB-L50 | SFP-Port 1000BASE-LX mini-GBIC module - 50km |
| MGB-L70 | SFP-Port 1000BASE-LX mini-GBIC module - 70km |
| MGB-L120 | SFP-Port 1000BASE-LX mini-GBIC module - 120km |
| MGB-LA10 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km |
| MGB-LB10 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km |
| MGB-LA20 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km |
| MGB-LB20 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km |
| MGB-LA40 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km |
| MGB-LB40 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km |
| MGB-TSX | SFP-Port 1000BASE-SX mini-GBIC module - 220/550m (-40 ~ 75 °C) |
| MGB-TLX | SFP-Port 1000BASE-LX mini-GBIC module - 10km (-40 ~ 75 °C) |
| MGB-TL30 | SFP-Port 1000BASE-LX mini-GBIC module - 30km (-40 ~ 75 °C) |
| MGB-TL70 | SFP-Port 1000BASE-LX mini-GBIC module - 70km (-40 ~ 75 °C) |
| MGB-TLA10 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 10km (-40 ~ 75 °C) |
| MGB-TLB10 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 10km (-40 ~ 75 °C) |
| MGB-TLA20 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 20km (-40 ~ 75 °C) |
| MGB-TLB20 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 20km (-40 ~ 75 °C) |
| MGB-TLA40 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 40km (-40 ~ 75 °C) |
| MGB-TLB40 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 40km (-40 ~ 75 °C) |
| MGB-TLA60 | SFP-Port 1000BASE-LX (WDM,TX:1310nm) mini-GBIC module - 60km (-40 ~ 75 °C) |
| MGB-TLB60 | SFP-Port 1000BASE-LX (WDM,TX:1550nm) mini-GBIC module - 60km (-40 ~ 75 °C) |
| | |

Available 100Mbps Modules (For IGS-4215-4P4T2S)

| MFB-FX | SFP-Port 100BASE-FX Transceiver (1310nm) - 2km |
|-----------|--|
| MFB-F20 | SFP-Port 100BASE-FX Transceiver (1310nm) - 20km |
| MFB-F40 | SFP-Port 100BASE-FX Transceiver (1310nm) - 40km |
| MFB-F60 | SFP-Port 100BASE-FX Transceiver (1310nm) - 60km |
| MFB-F120 | SFP-Port 100BASE-FX Transceiver (1310nm) - 120km |
| MFB-TFX | SFP-Port 100BASE-FX Transceiver (1310nm) - 2km (-40 ~ 75 °C) |
| MFB-TF20 | SFP-Port 100BASE-FX Transceiver (1310nm) - 20km (-40 ~ 75 °C) |
| MFB-FA20 | SFP-Port 100BASE-BX Transceiver (WDM,TX:1310nm) - 20km |
| MFB-FB20 | SFP-Port 100BASE-BX Transceiver (WDM,TX:1550nm) - 20km |
| MFB-TFA20 | SFP-Port 100BASE-BX Transceiver (WDM,TX:1310nm) - 20km (-40 ~ 75 °C) |
| MFB-TFB20 | SFP-Port 100BASE-BX Transceiver (WDM,TX:1550nm) - 20km (-40 ~ 75 °C) |
| MFB-TFA40 | SFP-Port 100BASE-BX Transceiver (WDM,TX:1310nm) - 20km (-40 ~ 75 °C) |
| MFB-TFB40 | SFP-Port 100BASE-BX Transceiver (WDM,TX:1550nm) - 20km (-40 ~ 75 °C) |

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IGS-4215-4P4T **IGS-4215-4P4T2S**

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