



Products

LAN Switches

Power over Ethernet

Industrial Ethernet

Managed Industrial Ethernet Switch

Unmanaged Industrial Ethernet Switch

Industrial Flat-type Ethernet

Industrial EN50155 Ethernet

Industrial Media Converter

Industrial Power over Ethernet

Renewable Energy PoE System

DIN Rail Power Supply

Industrial Modbus Gateway

Industrial Cellular Gateway

Media Conversion

Passive Optical Network

Wireless LAN

IP Surveillance

IP Telephony

Broadband Communication

Home Automation

Network Security

Network Peripheral

Partner Login

 User Name:
 Password:
IGS-4215-8P2T2S **NEW**
Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/100T + 2-Port 100/1000X SFP Managed Switch


Overview

Applications

Key Features

Specifications

Download

Related Products

Hardware Specifications

Copper Ports

Ten 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports (Port-1 to Port-10)

SFP/mini-GBIC Slots

Two 1000BASE-SX/LX/BX SFP interfaces (Port-11 and Port-12)
Compatible with 100BASE-FX SFP

PoE Injector Port

Eight ports with 802.3af/802.3at PoE+ injector function (Port-1 to Port-8)

Console

1 x RS232-to-RJ45 serial port (115200,8, N, 1)

Switch Architecture

Store-and-Forward

Switch Fabric

24Gbps/non-blocking

Switch Throughput@64 bytes

17.85Mpps @64 bytes

MAC Address Table

8K entries

Shared Data Buffer

4.1 megabits

Flow Control

IEEE 802.3x pause frame for full-duplex
Back pressure for half-duplex

Jumbo Frame

10 Kbytes

Reset Button

< 5 sec: System reboot
> 5 sec: Factory default

LED

3 x LED for System and Power:

- Green: DC Power 1
- Green: DC Power 2
- Red: Power Fault

2 x LED for PoE Copper Port (Port-1~Port-8):

- Green: LNK/ACT (10/100/1000Mbps)
- Orange: PoE-In-Use

2 x LED for 10/100/1000T Copper Port (Port-9~Port-10):

- Green: 1000 LNK/ACT
- Orange: 10/100 LNK/ACT

2 x LED for per mini-GBIC interface (Port-11 and Port-12)

- Green: 1000 LNK/ACT
- Orange: 100 LNK/ACT

4 x LED for PoE Power Usage (W) (Low to high)

- Orange: 60W, 120W, 180W and 240W

Connector

Removable 6-pin terminal block

Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2

Alarm

One relay output for power failure. Alarm relay current carry ability: 1A @ 24V AC

Power Requirements

48~56V DC, 6A (max.) (>51V DC for PoE+ output recommended)

Power Consumption/ Dissipation	7.8 watts, 26BTU (Standby without PoE function) at DC 56V power input 14 watts, 47BTU (Full loading without PoE function) at DC 56V power input 242 watts, 825BTU (Full loading with PoE function) at DC 56V power input
Dimensions (W x D x H)	161 x 107 x 72 mm
Weight	1040g
ESD Protection	6KV DC
Enclosure	IP30 aluminum case
Installation	DIN-rail kit and wall-mount ear
Power over Ethernet	
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	End-span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	IEEE 802.3af Standard - Per port 48V~51V DC (depending on the power supply), max. 15.4 watts IEEE 802.3at Standard - Per port 51V~56V DC (depending on the power supply), max. 36 watts
PoE Power Budget	Dual power input: maximum 240W (depending on power input)
Max. Number of Class 2 PDs	8
Max. Number of Class 3 PDs	8
Max. Number of Class 4 PDs	8
Layer 2 Functions	
Port Mirroring	TX/RX/Both Many-to-1 monitor
VLAN	802.1Q tagged-based VLAN Up to 256 VLAN groups, out of 4094 VLAN IDs 802.1ad Q-in-Q tunneling (VLAN stacking) Voice VLAN Protocol VLAN Private VLAN (Protected port) GVRP Management VLAN
Link Aggregation	IEEE 802.3ad LACP and static trunk Supports 8 groups with 4 ports per trunk
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) STP BPDU Guard, BPDU Filtering and BPDU Forwarding
IGMP Snooping	IPv4 IGMP snooping v2, v3 IGMP querier Up to 256 multicast groups
MLD Snooping	IPv6 MLD snooping v2, v3, up to 256 multicast groups
Access Control List	IPv4/IPv6 IP-based ACL/MAC-based ACL IPv4/IPv6 IP-based ACE/MAC-based ACE
QoS	8 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 control
Security	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
IP source guard
Storm control support
- Broadcast/unknown multicast/unknown unicast

Management Functions

Web browser, Console, Telnet, SNMP v1, v2c, v3
Firmware upgrade by HTTP/TFTP protocol through Ethernet network
Configuration upload/download through HTTP/TFTP

Basic Management Interfaces

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)

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
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
IEEE 802.1ab LLDP
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Plus
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

Operating Temperature

-40 ~ 75 degrees C

Storage Temperature

-40 ~ 85 degrees C

Humidity

5 ~ 95% (non-condensing)

Ordering Information

IGS-4215-8P2T2S

Industrial 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch (-40~75 degrees C)

Accessories

PWR-240-48

240W 48V DC Single Output Industrial DIN-rail Power Supply (-20 ~ 70 degrees C)

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