

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
- · 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



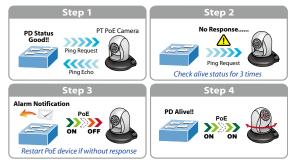
Built-in Unique PoE Functions for Powered Devices Management

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 VI AN
 - 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 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
- · 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.

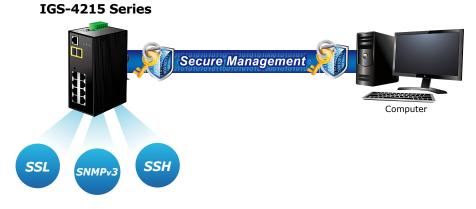


Efficient Traffic Control

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.

Friendly and Secure Management

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.

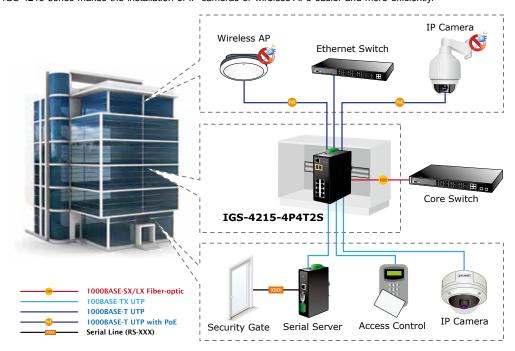
Digital Diagnostic Monitor (DDM)



Applications

Industrial-grade PoE Switch for Building Automation & Security

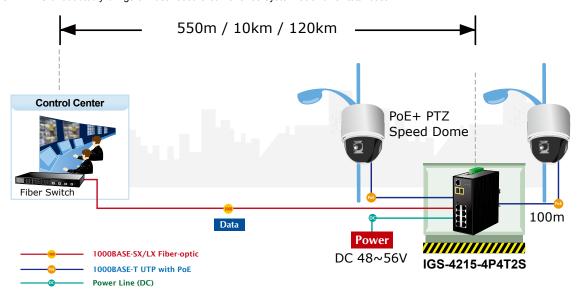
Suitable for buildings where security is strictly to be enforced, the IGS-4215 series, with 4 PoE, in-line power interfaces, can easily build a power centrally controlled for an IP phone system, IP surveillance system, and wireless AP group in the harsh Industrial environment. For instance, 4 PoE IP 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

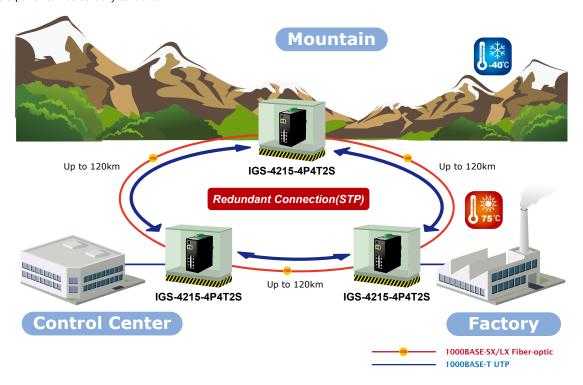
The IGS-4215-4P4T2S provides 4 10/100/1000Mbps 802.3at PoE ports which can offer sufficient PoE power to 4 PoE IP cameras at the same time. In addition, with the 2 100/1000BASE-X SFP interfaces, the IGS-4215-4P4T2S can connect to a core fiber switch and send video streams to an NVR and monitoring center. 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 (Port-1 to P	ort-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	
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 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-8): Green: LNK/ACT Orange: 1000Mbps 2 x LED for per mini-GBIC interface (Port-9 and Port-10)(IGS) Green: LNK/ACT Orange: 1000Mbps 4 x LED for PoE Power Usage (W) Orange: 30, 60, 90 and 120W	S-4215-4P4T2S)
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, 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) 8.96 watts, 30.5 BTU (Full loading without PoE function) 152.96 watts, 521.8 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 Output	IEEE 802.3af Standard - Per port 48V~56V DC (depending on the power supply), max. 15.4 watts IEEE 802.3at Standard - Per port 50V~56V DC (depending on the power supply), max. 36 watts	
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/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 4 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 ACE 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 unicast/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	FCC Part 45 Class A CF
Regulatory Compliance Stability Testing	FCC Part 15 Class A, CE IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock)
	IEC 60068-2-6 (vibration)



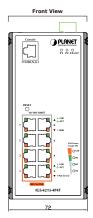
	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX/100BASE-FX
	IEEE 802.3z Gigabit SX/LX (IGS-4215-4P4T2S)
	IEEE 802.3ab Gigabit 1000BASE-T
	IEEE 802.3x Flow Control and Back Pressure
	IEEE 802.3ad Port Trunk with LACP
	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
	IEEE 802.1p Class of Service
	IEEE 802.1Q VLAN Tagging
Standards Compliance	IEEE 802.1x Port Authentication Network Control
	IEEE 802.1ab LLDP
	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
	Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -40 ~ 85 degrees C
	Relative Humidity: 5 ~ 95% (non-condensing)

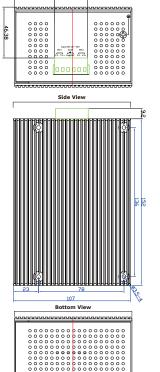
Drawing

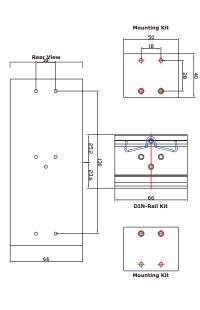
IGS-4215-4P4T

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







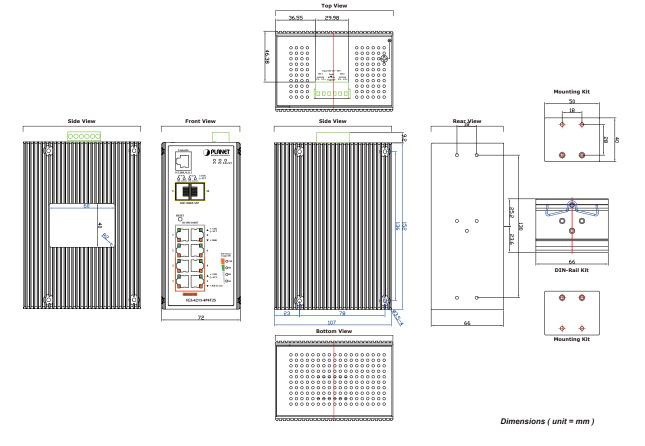




Drawing

IGS-4215-4P4T2S

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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)

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

ICA-2500 5 Mega-pixel PoE Box IP Camera ICA-3250V Full HD Outdoor IR PoE IP Camera ICA-42050V 5 Mega-pixel Bullet IR PoE IP Camera with Extended Support ICA-4200V Full HD 20M IR Vari-focal Dome IP Camera ICA-4500V 5 Mega-pixel 20M IR Vari-focal Dome IP Camera ICA-4500V 5 Mega-pixel 20M IR Vari-focal Dome IP Camera ICA-4500V 5 Mega-pixel 20M IR Vari-focal Dome IP Camera ICA-4500 7 Mega-pixel 35M IR Outdoor Box PoE IP Camera ICA-HM351 2 Mega-pixel PoE Plus Speed Dome Internet Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera POE-152S IEEE 802.3at Fower over Ethernet Splitter POE-162S IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point <t< th=""><th>ICA-2250VT</th><th>Industrial PoE Plus Outdoor IR IP Camera</th></t<>	ICA-2250VT	Industrial PoE Plus Outdoor IR IP Camera
ICA-E3550V 5 Mega-pixel Bullet IR PoE IP Camera with Extended Support ICA-4200V Full HD 20M IR Vari-focal Dome IP Camera ICA-4500V 5 Mega-pixel 20M IR Vari-focal Dome IP Camera ICA-5250 Full HD Ultra-mini Vandal Dome ICA-HM351 2 Mega-pixel 35M IR Outdoor Box PoE IP Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera POE-152S IEEE 802.3af Power over Ethernet Splitter POE-162S IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-201 IEEE 802.3at Gigabit High Power over Ethernet Splitter WNAP-C3220 802.31t Nüreless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	ICA-2500	5 Mega-pixel PoE Box IP Camera
Full HD 20M IR Vari-focal Dome IP Camera ICA-4200V 5 Mega-pixel 20M IR Vari-focal Dome IP Camera ICA-5250 Full HD Ultra-mini Vandal Dome ICA-HM351 2 Mega-pixel 35M IR Outdoor Box PoE IP Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera POE-152S IEEE 802.3af Power over Ethernet Splitter POE-162S IEEE 802.3af Ower over Ethernet Splitter POE-201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	ICA-3250V	Full HD Outdoor IR PoE IP Camera
ICA-4500V 5 Mega-pixel 20M IR Vari-focal Dome IP Camera ICA-5250 Full HD Ultra-mini Vandal Dome ICA-HM351 2 Mega-pixel 35M IR Outdoor Box PoE IP Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera POE-152S IEEE 802.3af Power over Ethernet Splitter POE-162S IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	ICA-E3550V	5 Mega-pixel Bullet IR PoE IP Camera with Extended Support
ICA-5250Full HD Ultra-mini Vandal DomeICA-HM3512 Mega-pixel 35M IR Outdoor Box PoE IP CameraICA-HM6202 Mega-pixel PoE Plus Speed Dome Internet CameraPOE-152SIEEE 802.3af Power over Ethernet SplitterPOE-162SIEEE 802.3at Gigabit High Power over Ethernet SplitterPOE-201IEEE 802.3at Power over Ethernet ExtenderWNAP-C3220802.11n Wireless Ceiling-mount PoE Access PointWNAP-W2200802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type)WDAP-1750AC1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access PointWDAP-C7200AC1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access PointWDAP-W7200AC1200Mbps 802.11ac Dual Band Wall-mount Wireless Access PointICF-1800HD Touch Screen Android Multimedia Conferencing PhoneVIP-1010PTHigh Definition PoE IP Phone (1-Line)VIP-2020PTEnterprise HD PoE IP Phone (2-Line)	ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-HM351 2 Mega-pixel 35M IR Outdoor Box PoE IP Camera ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera POE-152S IEEE 802.3af Power over Ethernet Splitter POE-162S IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-E201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point	ICA-4500V	5 Mega-pixel 20M IR Vari-focal Dome IP Camera
ICA-HM620 2 Mega-pixel PoE Plus Speed Dome Internet Camera POE-152S IEEE 802.3af Power over Ethernet Splitter POE-162S IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-E201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point UCF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	ICA-5250	Full HD Ultra-mini Vandal Dome
POE-152S IEEE 802.3af Power over Ethernet Splitter POE-162S IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-E201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1400Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount Wireless Access Point WDAP-W7200AC 1500Mbps 802.11ac Dual Band Wall-mount W	ICA-HM351	2 Mega-pixel 35M IR Outdoor Box PoE IP Camera
POE-162S IEEE 802.3at Gigabit High Power over Ethernet Splitter POE-E201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
POE-E201 IEEE 802.3at Power over Ethernet Extender WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	POE-152S	IEEE 802.3af Power over Ethernet Splitter
WNAP-C3220 802.11n Wireless Ceiling-mount PoE Access Point WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
WNAP-W2200 802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type) WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	POE-E201	IEEE 802.3at Power over Ethernet Extender
WDAP-1750AC 1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	WNAP-C3220	802.11n Wireless Ceiling-mount PoE Access Point
WDAP-C7200AC 1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	WNAP-W2200	802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type)
WDAP-W7200AC 1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	WDAP-1750AC	1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point
ICF-1800 HD Touch Screen Android Multimedia Conferencing Phone VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	WDAP-C7200AC	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
VIP-1010PT High Definition PoE IP Phone (1-Line) VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	WDAP-W7200AC	1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point
VIP-2020PT Enterprise HD PoE IP Phone (2-Line)	ICF-1800	HD Touch Screen Android Multimedia Conferencing Phone
	VIP-1010PT	High Definition PoE IP Phone (1-Line)
VID 5060PT Professional HD PoE IP Phone (6 Line)	VIP-2020PT	Enterprise HD PoE IP Phone (2-Line)
VIF-3000F1 FIGURESSIGNATION FOL IF FINITE (0-LINE)	VIP-5060PT	Professional HD PoE IP Phone (6-Line)

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