



2018 Product Portfolio

All-inclusive IP Networking Solutions

- LAN Switches
- Industrial Ethernet
- Power over Ethernet
- Media Conversions

- Broadband Communications
- Home Automation

IP Surveillance

IP Telephony

Network Security

Network Peripherals

- Wireless LANs

Pioneer of IP Innovation



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XGS3-24042 XGS3-24242

XGS-6350-12X8TR

SGS-5220-24S2XR

.2+ Managed Switch

GS-5220-44S4C

GS-5220-16T4S2X

GS-5220-20T4C4X

GS-5220-48T4X

GS-5220-16S8C

WGSW-24040

WGSW-24040R

WGSW-28040

GS-4210-16T2S

GS-4210-24T2S

GS-4210-48T4S

MGSW-10080F

MGSW-24160F

MGSW-28240F

GS-2240-24T4X

GS-2240-48T4X

IGS-20040MT

L2+ Managed Ring Switch

L2+ Managed Ring Switch

16G TP + 4G SFP

IGS-12040MT

IGS-20160HPT

IGS-5225-8T2S2X

IGS-5225-8P2S2X

IGS-5225-4UP1T2S

IGS-10020MT

IGS-10080MFT

IGS-10020PT

IGS-4215-8P2T2S

8G PoE + 2G TP + 2G

IGS-4215-4P4T

IFGS-1022HPT

IGS-604HPT-RJ

IGS-604HPT-M12

IGS-5227-4MP2MT

Managed Switch with

IGS-5227-6MT

IGS-5227-6MT-X

IGS-5226-4P2T

ISW-804PT-M13

ISW-800T-M12

L2+ Managed Ring Switch

PoE + 2G TP/ SFP combo

4G 802.3at PoE + 4G TP

IGS-4215-4P4T2S

30W 10G

60W

30W

Slots + 4-Port 10G SFP

Metro Switch

GS-5220-16S8CR

 Four Slots for optional Gigabit / 10 Gigabit Modules
 IP Routing Protocols: Static Routing, RIPv1/v2, OSPFv2, BGP4 and VRRP
 IP Multicast Routing: IGMP, PIM-DM/SM, DVMRP ■ IEEE 802.1x / RADIUS / TACACS+ / SSH / SSL

Gigabit Wire-speed Laver 3 IPv4/IPv6 Routing

Glgabit Wire-speed Layer 3 IPV4/IPV6 Routing
 IP Routing Protocols: Static Routing, RIPV1/V2, OSPFv2 and VRRP
 IP Multicast Routing: IGMP, RIM-DM/SM, DVMRP
 Layer 2/3/4 Access Control List
 IP Stack Management
 100~240V AC/48V DC Power Redundant

■ Gigabit Wire-speed Layer 3 IPv4 and IPv6 routing ■ IP routing protocols: Static routing, RIPv1/v2, OSPFv2 | IP multicast features: IGMP snooping v1/v2/v3, multicast group policy
| IEEE 802.1Q, Private VLAN and GVRP for VLAN management
| L2_L3 and L4 Access Control List and IEEE 802.1x support

WGS-4215-8P29 8G 802.3at PoE + 4G S WGS-804HPT Managed Switch

BSP-360

802.3at/af PoE Switch

4G SFP Stackable

WGS-5225-8T2SV

WGS-5225-8P2S

(with LCD Touch Screen

BG PoE + 2G SFP

 12V~48V DC/24V AC power input
 IPv4/IPv6 web management / Telnet / SNMP v1, v2c, v3 remote management
■ STP/RSTP/MSTP, LACP, ACL, QoS, DHCP snooping Compact IP30 metal case with fanless design
 Fixed wall mounting, magnetic wall mounting and DIN-rail installation 4-/8-port IEEE 802.3at PoE+, up to 36 watts for each PoE port
 PoE Schedule / Scheduled Power Recycling / PD Alive Check
 IPv4/IPv6 web management; Telnet; SNMP v1, v2c, v3

2.4-inch color LCD touch screen with management functions
 8-port 10/100/1000BASE-T with 802.3at PoE+
 2-port 100/1000BASE-X SFP

Dual power input system (3-pin terminal block and DC plug)

■ ERPS Ring Data Recovery time < 20ms

■ -20~70 degrees C operating temperature

IPv4/IPv6 Layer 3 static routing
 Supports Modbus TCP/IP Protocol

WGS-4215-8T2S

Industrial Ethernet

 -40 to 75 degrees C operating temperature
 Dual redundant power input on 48~56V DC terminal block and power jack Compact IP30 metal case with fanless design Fixed wall mounting, magnetic wall mounting and DIN-rail installation Dual SIM cards for 3G/4G cellular network redundancy

ICG-2420-LTE 3 10/100TX LAN ports and 1 10/100TX WAN port ICG-2420G-LTE

 2 DI and 1 DO ports, 2 R5232 and 1 R5485 serial ports
 Supports OpenVPN, IPSec
 Global positioning system Included (ICG-2420G-LTE) -20 to 70 degrees C operating temperature
 IP40 aluminum case, DIN rail and fanless design Dual IEEE 802.3at/af Power over Ethernet Interfaces Pulse Width Modulation protection
 LED Indicator shows the System Operating Status for easy diagnosti Solar power solution realizes truly zero-carbon Green Power System

 Plug-and-Play designed for PoE devices One/Two RS422/RS485 port(s) for Fast Ethernet 10/100BASE-TX application

Built-in IP-based Web interface and telnet interface for remote management

RTU Master, RTU Slave, ASCII Master, and ASCII Slave operation modes IMG-120T Master mode supports 32 slave TCP connection requests; slave mode supports 16 TCP master connections
 PLANET Modbus Gateway utility and Smart Discovery utility supplements of terminal block connector for DC 9-48V power input

Power over Ethernet

■ 24-port 802.3at PoE+, 370-watt PoE budget PRouting Protocols: Static Routing and RIP v1, v2;
 OSFP v1, v2 dynamic routing
 IPv4/IPv6 web management; SNMP v1, v2c and v3; SGS-6340-24P4S SGS-6341-24P4X SSH / SSL management

IEEE 802.1Q VLAN, Q-in-Q, private VLAN, GVRP IGMP snooping v1, v2 and v3; MLD snooping v1 and v2
 IP Stack: Up to 24 units and single IP address stack management

 2.4-inch color LCD touch screen with management function GS-5220-24UP(L)4XV(R) Supports up to 75 watts of PoE power for each PoE port IPv4/IPv6 Layer 3 static routing and route summarization GS-5220-16UP2XV(R)

IEEE 802.1Q VLAN, Q-in-Q, Protocol-based and MAC-based VLANs ■ PoE schedule, scheduled power recycling, PD alive check + 16G/24G UPoE + 2 OG SFP+ Managed Switch 2/4 10GBASE-SR/LR SFP+ slots, backward

■ 100~240V AC for switch system and PoE; 36~60V DC for switch system 16-/24-port 60W 802.3bt PoE, 400-watt PoE budget GS-5220-16UP4S2X (GS-5220-16UP4S2X / GS-5220-24UP4X) 24-port IEEE 802.3at PoE, 400-watt PoE budget (GS-5220-24P4X) GS-5220-24UP4X ■ PoE Schedule / Schedule Power Recycling / PD Alive Check IPv4/IPv6 Layer 3 Static Routing
 Intelligent SFP digital diagnostic monitor (DDM)
 IEEE 802.1s MSTP and loop protection Multicast VLAN registration and voice VLAN

GS-5220-24P(L)4XV(R) Supports up to 36 watts of PoE power for each PoE port ■ IPv4/IPv6 Layer 3 static routing and route summarization GS-5220-16P2XV(R) IEEE 802.1Q VLAN, Q-in-Q, Protocol-based and MAC-based VLANs
 PoE schedule, scheduled power recycling, PD alive check 2/4 10GBASE-SR/LR SFP+ slots, backward with LCD Touch Screen compatible with 1000BASE-SX/LX/BX SFP Supports PoE Power up to 36 watts for each PoE port

4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP

IPv4/IPv6 Layer 3 static routing and route summarization GS-5220-24P(L)4X(R)

GS-5220-48P(L)4XR

48G 802.3at PoE + 4G SFP

5G 802.3at PoE+ 2G SFF

GS-4210-16P2S

GS-4210-16P4C

GS-4210-8P2T2S

GS-4210-8P2S

GS-4210-16UP4C

GS-4210-24UP4C

.2/L4 Managed Switch

FGSD-1022VHP

FSD-604HP

Desktop Switch

UPOE-800G

UPOE-1600G

UPOE-2400G

HPOE-1200G

HPOE-2400G

PoE-171A-60

PoE-171A-95

POE-172S

Managed Injector Hub

12-/24-Port 802.3at PoE+

POE-171 / POE-173

POE-171S / IPOE-171S

60W

Desktop Switch

24G/48G UPoE + 4 10G ■ IEEE 802.1Q VLAN, Q-in-Q, Protocol-based and MAC-based VLANs SFP+ Managed Switch 100~240V AC, 36~60V DC redundant power for system
 PoE schedule, scheduled power recycling, PD alive check WGSW-24040HP 220-watt/440-watt PoE Budget / Remote PoE Power Control WGSW-24040HP4 Power Feeding On/Off, Power Schedule, PD Alive Check Function

 IPv6 Web Interface / SNMP v1, v2 and v3 / SSH / SSL Management
 IEEE 802.1Q VLAN / Private VLAN / Q-in-Q / Protocol-based VLAN / 24G 802.3at PoE + Managed Switch ■ IGMP Snooping v1, v2 and v3 / MLD Snooping v1and v2 IEEE 802.3at/af Power over Ethernet / End-Span PSE
 150-watt/230-watt PoE Budget / Remote PoE Power Control
 IEEE 802.1D/1W.1S Spanning Tree Protocol
 IEEE 802.1Q VLAN / Private VLAN / Q-in-Q WGSD-10020HP GS-5220-8P2T2S

■ Layer 2/3/4 Access Control List / QoS Control List ■ IPv6 Web interface / SNMP / SSH / SSL Management GS-4210-24P4C ■ 24-/48-port 802.3at PoE, 220-/440-watt PoE budget GS-4210-24PL4C GS-4210-24PL4C

■ POE Schedule / Scheduled Power Recycling / PD Alive Check
24G 802.3at PoE + 4G TP/SFP

■ IEEE 802.1Q VLAN, GVRP, voice VLAN and private VLAN ■ IEEE 802.1s MSTP, IPv4 IGMP snooping and IPv6 MLD snooping 802.1x RADIUS and TACACS+ authentication, Layer 2/3/4 ACL
 IPv6 web management / SNMP v1, v2c and v3 / SSH / SSL management GS-4210-48P4S

Cable diagnostics, smart fan and power alarm

■ 16-port 802.3at PoE, 220-watt PoE budget vcling / PD Alive Check IEEE 802.1s MSTP, IPv4 IGMP snooping / IPv6 MLD snooping
 802.1x RADIUS and TACACS+ authentication, Layer 2/3/4 ACL IPv6 web management / SNMP v1, v2c and v3 / SSH / SSL management SFP L2/L4 Managed Switch

Cable diagnostics, smart fan and power alarm

 240-watt/125-watt PoE budget / Remote PoE Power Control ■ PD Alive Check / Scheduled Power Recycling/ Time-based PoE Schedule ■ IEEE 802.1Q VLAN / Voice VLAN / Private VLAN / Q-in-Q
■ IGMP snooping v2 and v3 / MLD snooping
■ IPv6 Web interface / SNMP v1, v2c and v3 / SSH / SSL management

■ 13-inch desktop size, 19-inch Rack-mountable ■ 16-/24-port 60W ultra PoE, 400-watt/600-watt PoE budget

 PoE Schedule / Scheduled Power Recycling / PD Alive Check
 IEEE 802.1Q VLAN, GVRP, voice VLAN and private VLAN
 IEEE 802.1s MSTP, IPv4 IGMP snooping and IPv6 MLD snooping ■ IPv6 web management / SNMP v1, v2c and v3 / SSH / SSL management 120-/220-/400-watt PoE budge

FGSD-1008HPS FGSW-1816HPS ■ PoE Management / PoE Status / PoE Schedule IEEE 802.1Q VLAN / Port-based VLAN
 IEEE 802.1D/1w Spanning Tree Protocol FGSW-2624HPS FGSW-2624HPS4 IEEE 802.3ad Link Aggregation Control Protocol IGMP snooping v1 and v2 2G Web Smart Switch

 LCD Monitor for system status and PoE usage status display
 8/16/24-port 10/100BASE-TX Fast Ethernet RJ45 copper FGSW-1822VHP FGSW-2622VHP ■ Per PoE port supports up to 30-watt VLAN Isolation Mode IP surveillance application LCD PoE Switch GSD-1022VHP

 10/16/24-port 10/100/1000BASE-T Gigabit Ethernet RJ45 copper GSW-1820VHP End-span (120/300-watt PoE budget) GSW-2620VHP 8/16/24G 802.3at LCD PoE+ Switch Metal case, internal power design FSD-1008HP 8-port PoE+, total PoE budget of 120W 2-port RJ45 for uplink
 Hardware DIP switch for Standard, VLAN and Extend mode selection **GSD-1008HP**

■ Distance is 250m with 30W power output at speed 10Mbps in Extend Mode ■ IEEE 802.3at/802.3af PoE standard complian 8-port 10/100BASE-TX End-span PSE and 120-watt PoE budge FGSD-1011HP 1 port Gigabit RJ45 and 1 port Gigabit Mini-GBIC SFP for uplink
 Extend mode features 30-watt PoE transmit distance of 250m at speed of 10Mbps and VLAN isolation Fanless and 10-inch desktop size design

> Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX
> 4-port PoE+, total PoE budget of 60W ■ 1/2-port 10/100Mbps RJ45 for uplink ■ Distance is 250m with 30W power output at ■ UPoE, end-span or mid-span selectable in "PoE Power Output" mode 360-watt/600-watt/900-watt PoE budget, remote PoE power control PD Alive check / Scheduled Power Recycling/ Time-based PoE schedule

 Mid-Span Power Injector Box Web Management, SNMP Trap Remote PoE Power Management a
 Full Power Support each PoE Port Up to 60W of Power on 4-pair UTP Supports 10/100/1000BASE-T Applications
 Compatible with All IEEE 802.3at/af PSE Injector/Switch

Enables Powering with 12V, 19V and 24V Terminals

via POE-171S PoE Splitter

Ethernet Injector/Splitter Up to 60/95 watts of power on 4-pair UTP
 Supports 10/100/1000BASE-T applications
 Compatible with IEEE 802.3bt ps Data and power over one Ethernet cable up to 100 meters Enables to power 12V,19V and 24V terminals via POE-171S PoE Splitter ■ Compatible with IEEE 802.3bt

> ■ IEEE 802.3at PoE+, up to 30W over UTP cable Wall mount and easy installation
> 24V/48V DC, redundant power (IGTP-805A) -40 to 75 degrees C operating temperature

No external power cable required for installation

WAPC-1232HP

iOS and Android mobile devices support

 Supports SIP 2.0 (RFC 3261) ■ IEEE 802.3at/af PoE compliant (VIP-1000PT only) VIP-10001 Supports HD voice (G.722
 802.1P and 802.1Q VLAN VIP-1000PT VPN (L2TP, PPTP) 3-way conferencing, caller ID support

 2-line key with color LED VIP-1120PT 2 SIP identitiesWideband G.722 HD audio ■ IEEE 802.3at/af PoE compliant ■ 2.8-inch (main) and 2.4-inch (DSS) key-mapping LCD monitor

 30 configurable and 6 multicolored LED keys IETF SIP compliant with 4 identities/accounts Wideband G7.22 HD audio with Handset and Hands-free function Gigabit switch and IEEE 802.3at/af PoE compliant
 VPN, VLAN, QoS, TR069, auto-provisioning and multi-language Supports TR069 and auto-provis ■ Supports VLAN (voice VLAN / data VLAN)

■ IEEE 802.3at/af PoE compliant ■ Dual 10/100/1000 Gigabit Ethernet 5-way conferencing / Supports HD Voice
 IEEE 802.3at/af PoE compliant

 Supports SIP 2.0 (RFC 3261) Supports HD voice and built-in SD card
 128 x 64 pixel LCD display with ivory backlight VIP-8030NT ■ With the extended microphone, conference calls can be made so easy and flexiblePSTN / VolP call selection Speaker volume with adjustable 14 levels reaches 90db ■ IETF SIP compliant with Peer-to-Peer / SIP proxy calls Up to 5 Proxy server registrations
 T.38 FoIP / Auto-provisioning
 TR069 / Auto-upgrade firmware
 Integrated 802.3af PoE (VIP-156PE)

 2 concurrent VoIP calls (VIP-157S) Supports SIP 2.0 (RFC 3261) IEEE 802.3af Power over Ethernet compliant
 Paging and intercom VPA-100 Four programmable output portsAudio output mode: Speaker and handset Audio output for position: 3.5mm and loud speaker ■ 7" color TFT LCD display

VIP-157S

ICF-1800

IPX-330

2-Ethernet Port SIP ATA

Built-in Android 4.2 OS
Dual 10/100/1000 Gigabit Ethernet **HD Touch Screen** ■ 800 x 480 pixel touch screen ■ Supports six SIP voice lines / HD Voice VGW-402 ■ IPv6 and IPv4 Simultaneously VGW-400FO Up to 4 SIP service domains and caller ID
 Supports auto HTTP provision and fax feature
 Flexible Routes Plan, Dial Plan and SIP Trunk VGW-400FS

 Life-line for emergency calls (VGW-402) ■ SIP 2.0 (RFC 3261) compliant VGW-804 ■ IPv6 and IPv4 Simultaneously VGW-800FO Up to 8 SIP service domains and Caller ID
Supports Auto HTTP Provision and FAX feature
Flexible Routes Plan, Dial Plan and SIP Trunk VGW-800FS Life-line for emergency calls (VGW-804)

 30/100/200/500 Registrations and 15/30/60/100 Concurrent Calls IPX-2100 ■ Supports 2 EXO ports for IPX-330 Supports maximum 8 ports (on 2 slots - IPX-21FO/IPX-21SL/IPX-21GS) for IPX-2100/IPX-2200/IPX-2500

Supports SNMP v2, VPN Server/Client IPX-2200 IPX-2500 Customized IVR, Voice mail to e-mail PBX System Call Record, Paging and Intercom, Mail to Fax ■ SSL / PPTP VPN, URL / IM / P2P Blocking and SPI Firewall

UMG-1000 Port FXO IP PBX and up to 100 Registration ■ POP3, SMTP, IMAP and Webmail e-mail Service ■ FTP & Network Storage ■ LCR/BLF/BLA

IP Surveillance

■ Maximum resolution 1920 x 1080 35-meter IR / ICR for Day & Night function WDR/3DNR/1P66/ONVIF compliant
 Sony Exmor™ CMOS
 Cable Management Industrial Box IR IP Camera ■ Compliant with IEEE 802.3at PoE interface -40 to 75 degrees C operating temperature

ICA-3250

 1/2.8" Sony Exmor progressive scan CMOS sensor
 3.6mm lens with 74 degress angle view for wide area surveillance
 Compliant with IEEE 802.3af PoE interface ICA-4250 Day/Night Switch ICR (IR-cut filter removable) 25-/20-meter IR LEDs Wide dynamic range and digital noise reduction technology ■ VoIP / SIP 2.0 (RFC 3261) compliant

 3DNR / ONVIF compliant
 Micro SD card for local storage
 Compliant with IEEE 802.3af PoE interface ICA-4130S HD Ultra-mini SIP IP Camera Alarm video streaming to Mobile / Video Phone ICA-W3250V 20/25-meters IR / ICR for Day & Night FunctionWDR / 3DNR / IPv6 / ONVIF compliant

■ Maximum Resolution 1920 x 1080 20-meter IR / ICR for Day & Night Function
 2.8~12.0 mm vari-focal, DC auto-iris lens
 Built-in PIR sensor for thermal / motion detection ICA-4200V ■ WDR / 3DNR / IPv6 / ONVIF compliant

ICA-3260

 Sony's 1/2.8 type "Exmor RS" 2.4MP CMOS sensor
 Super low lux@0.01
 Max. resolution 1080p at 60fps () ICA-4210P ■ True WDR[™] / 3DNR / IPv6 / ONVIF compliant ■ Intelligent-inside audio, tamper, face and cross line detection alarm

■ 1/2.8" Sony Exmor™ progressive scan CMOS sensor ICA-M3380P 2.8~12mm P-Iris lens with wide area surveillance
 Maximum resolution 2048 x 1536 at 30fps ICA-M4320P Day & Night with superior low light sensitivity and 25-meter IR LED
 Compliant with IEEE 802.3af PoE interface ICA-M5380P H.265 3 Mega-pixel IR Focus and Zoom

 IP66-rated housing with cable management bracket (ICA-M3380P)
 Built-in PIR sensor for thermal and motion detection (ICA-M4320P)
 IK10 and IP66 rated housing for rigorous environment (ICA-5380P) ■ Sonv Exmor[™] CMOS with 1920 x 1080 (ICA-HM620) ICA-HM620 20X Optical / 8X Digital Zoom (ICA-HM620) D1/720P mode up to 60fps
 Compliant with IEEE 802.3at PoE interface

■ IP66 / IK10 / IPv6 / ONVIF complian ■ 3 6mm fixed lens with 1280 x 720 resolution ICA-W7100 720P Wireless IR PT 355-degree pan, 90-degree tilt

 180° Fisheye panoramic wide angle view
 Maximum resolution 1280 x 720
 WPS / PIR for thermal / motion detection ICA-W8100 ICA-W8100-CLD ■ Plug and Play Smart Access technology without IP setting in router Fisheve IP Camera ■ Fisheye lens brings 360°/180° panoramic wide angle view Up to 15fps for 1920 x 1920 resolutions
 9 different video modes including digital PTZ function ICA-W8500 5 Mega-pixel Wireless

■ IEEE 802.11b/g/n wireless LAN with WEP and WPA encryptions NVR-915 ■ HDMI and VGA output at 1920×1080P resolution NVR-1615 Video Integration with CMS
 Auto-configuration for PLANET IP CAM
 PLANET Easy-DDNS / Mobile App

 Full Integration & Multi-monitor with CMS NVR-1620 Dual monitor for Live View & Playback
 Auto-configuration for PLANET IP CAM Video Recorder with HDMI ■ PLANET Easy-DDNS / Mobile App H.265/H.264 compression technology NVR-3685 ■ Supports 8 SATA HDDs, up to 6TB per HDD

■ E-map interface in Web, local and uility configuration ONVIF compliant for standardization and interoperability HDVR-430 ■ H.264 and ONVIF compliant AHD, Analog and IP cam hybrid Integration
 HDMI and VGA output at 1280x720P resolution HDVR-830 HDVR-1630 Video recycling function 24/7 for easy inquiry of suspicious event

■ Multi-brand IP CAM / Google e-Map

 Manages up to 64 cameras
 8-bay rackmount (2U) with software RAID (0,1) NVR-E6480 Instant playback in live view window Location-based management with eMap with 8-Bav Hard Disks ■ Remote access via mobile app, Web browser or CMS 33X optical zoom, endless pan & tilt

 Max. frame rate 60fps at 1080p
 Weatherproof (IP67), vandalproof (IK09) ICA-E6260 Superior low light sensitivity WDR enhancement . 3D noise reduction ■ 36X optical zoom, endless pan & tilt

ICA-E6265 Long-distance, adaptive IR LEDs
 Superior low light sensitivity
 WDR enhancement, 3D noise reduction 2 Mega-pixel IR PoE Plus Speed Dome IP Camera ■ Water-repellent and scratch-resistant lens glass ■ Built-in PTZ auto tracking and enhanced intelligent video application

ICA-E8550 ICR, WDR and DNR 5 Mega–pixel Outdoor IR PoE Fisheye IP Camera Built-in IR illuminators, effective up to 15 meters Built-in micro SD card slot for on-board storage
 Vandalproof (IK10) and weatherproof (IP68)

■ EN50155 compliance for professional mobile surveillance ■ 2.8~12mm vari-focal, fixed iris lens Maximum resolution 2592 x 1944 at 15fps ICA-E3550V Compliant with IEEE 802.3af PoE interface ■ WDR/DNR/IPv6/ONVIF/micro SD IR PoE IP Camera with Day & Night with adaptive IR LED
 IK10 / IP68 enclosure with vandal and weather proof

 One region of interest per channel Software-based Automatic
License Plate Recognition

Searching and filtering based on time and vehicle color
Convenient plate numbering searching License Plate Recognition for E-series of IP Cameras

Convenient plate numbering searching Analysis for live and pre-recorded videos

 Supports enter area, people counting, missing object based Intelligent
line crossing, unattended object and tamper functions
Event search and filtering based on time, algorithm and object color

 Analysis for live and pre-recorded videos **Network Security**

IP Surveillance

 Anti-malware protection and application optimization
 Anti-Virus, Anti-Spam, IDP, SPI Firewall and Application Control CS-950

Content Filtering to deny access to Websites that are malicious IPv6, Smart QoS, Outbound Load Balancing ■ Excellent SSL VPN, IPSec VPN and PPTP Server/Client connectivity

Broadband Communications ■ 24/48-port DSL / ADSL / ADSL2 / ADSL2+ Subscriber Interface

with Built-in POTS Splitter

1 1x 1000BASE-T Uplink Interface (IDL-2402)
2 x 1000BASE-T or 2 x mini-GbE Uplink Interface (IDL-4802)

Web-based GUI and User-friendly CLI Management Static/Port-based/Protocol-based VLAN Support Access Control List and Filtering by MAC / IP / Protocol / Port numbe 802. 1p QoS / 802. 1d STP / 802.3ad Link Aggregation Support (IDL-4802)

Integrated AP controller as central monitor to provide flexible deployment options

■ Built-in POTS Splitter for each VDSL Port VC-820M 8K MAC Address Table 8K MAC Address Table
 802.1Q VLAN / Port-based VLAN
 802.1p / DSCP QoS / Bandwidth Control
 Web / CLI / Console Management
 SNMP v1, v2c, v3 VDL-2420M

■ VDSL2/ADSL2+ in one solution, G.Vector support VDSL2 30a profile, up to 100/100Mbps downstream/upstream

300Mbps 802.11n wireless connectivity VDR-300NU with 2 USB ports for 3G WAN, print server and storage Complies with 100BASE-FX

 Wireless data rate up to 300Mbps 2 x PON Port and 4 x Gigabit SEP Interface Per PON Supports 64 ONU Device

 User-friendly GUI Management ■ IEEE 802.1q support ■ Fully compliant with IEEE 802.3ah

 Up to 1.25Gbps Upstream and Downstream EPN-110 Distance up to 20km
 Dynamic Bandwidth Allocation (DBA) Support
 1-port GE 1-Port GEPON ONU

HAC-1000E Provides pre-defined scene modes and real-time image monitoring Z-Wave Home Autor Ensure entry doors are closed and locked remotely ■ Control via PC, control pad, smart phone Stylish 7-inch touch screen IP intercom HTS-700P

HTS-700P

Fower over Ethernet IEEE 802.3af/at

Hands-free two-way video Intercom, unlock door from the intercom

Up to 3 scenes managed via PLANET Z-Wave Plus™ Gateway

8-zone alarm interface available for security control (Dl x 6 + DO x 2)

 G.722 coding produces clearer HD voice quality
 Compatible with IEEE 802.3at/af PoE HDP-5240PT Unlock the door with an RFID, remote DTMF or local password

HDP-5260PT

■ Compatible with the Asterisk SIP IP PBX systems or various platforms

 Z-Wave 500 module series
 Detects changes in movement via infrared technology (HZS-100)
 Photoelectric sensor is particularly effective in detecting HZS-100/HZS-200 HZS-300/HZS-500 smoldering fires (HZS-200) 14)

Network Peripherals

KVM-210-08 ■ Cascade up to 2 levels - control up to 64/256 computer KVM-210-16 Supports monitor resolution of up to 2048 x 1536 Computer selection via Port Select Button, Hotkey and 8/16-Port Combo On Screen Display (OSD)

QVS (Quick View Setting): Quickly select your computer by naming

or SN number ■ 19-inch 1U rack mountable KVM-210-08M ■ Cascade up to 2 levels, control up to 64/256 computers KVM-210-16M Supports high resolution up to 1280 x 1024 Computer selection via Port Select Button, Hotkey and On Screen Display (OSD)

 Remote computer control via TCP/IP protocol IKVM-210-08 Supports PS/2 and USB compatible mouse/trackball IKVM-210-16

IKVM-210-08M

IKVM-210-16M Cascade up to 2 levels, control up to 64/256 computers Supports high resolution up to 1280 x 1024

 Multiple languages function ■ UPnP AV/DLNA/HomePlug AV compliant DMA-200 ITB-3001

Full HD (1080) and HDMI
 Stream videos, music and photos

NAS-7103 1-Bay SATA NAS Server

 Supports BT Download, DLNA, iTunes Media Server ■ iPhone app for NAS Viewer ■ IEEE 802.11n, IEEE 1901 and HomePlug AV compliant Up to 200Mbps data rate on the powerline
Distance up to 300 meters
Easily extends secure wireless network by One-touch PL-510W

Wi-Fi Protected Setup (WPS)

■ Efficient Bandwidth Management by OoS

IEEE 802.3af Standard PoE Interface

■ Support 1080p or Ultra 4K (3840 x 2160) HDMI resolution with H.264

■ IEEE 1901 and HomePlug AV standard compliant PL-702 Distance up to 300 meters
 128-bit AES encryption for network protection enhancement PL-751

 Up to 16 power lines QOS/IGMP/green technology Provides a noise-filtered power outlet with AC passthrough ■ IEEE 1901 and HomePlug AV2 standard compliant Utilizes Smartlink Technology
 Up to 600Mbps data rate on the powerline PL-802

IHD-410PT IHD-410PR

■ HDCP-compliant and Blu-ray ready Support IR extension and Automatic EDID Video Wall Ultra 4K HDMI/

Assigns video sources to any monitor of the video wall system 1-to-1,1-to-many and multi-casting broadcasting architectures ■ Compatible with H.264 and 1080p HDTV resolution IHD-210PT ■ IEEE 802.3af Standard PoE Interface IHD-210PR HD HDMI Extender

IPM-4220 LCD panel to display voltage, current and IP address IPM-8220 Events notification by sending pop-up message, trap, SMS or e-mail Sets over-current watchdog for power outlet IP filtering to prevent unauthorized access

4-Slot Layer 3 IPv6/IPv4 Routing

24G + 4 optional 10G Slots

LAN Switches

■ IEEE 802.1d/1w/1s Spanning Tree Protoco SNMP v1/v2c/v3 and RMON Groups 1, 2, 3, 9 SGS-6341-48T4X ■ IP Routing Protocols: Static Routing and RIPv1/v2, SGS-6341-24T4X OSFPv1/v2 dynamic routing

IPv4/IPv6 web management / SNMP v1, v2c and v3 / SGS-6340-24P4S SGS-6340-20S4C4X

SSH / SSL management

IEEE 802.1Q VLAN, Q-in-Q, private VLAN, GVRP

Layer 2/3/4 Access Control List and QoS SGS-6340-16XR 52/28-Port Gigabit and
16-Port 10G SFP+ Stackable
■ IGMP snooping v1, v2 and v3 / MLD snooping v1 and v2
■ IP Stack: Up to 24 units and single IP address stack management ■ Up to 16 units, 384 Gigabit ports and 32 10Gbps SFP+ slots SGS-5220-24T2X connectivity per stack group

Single IP management / Plug and Play hardware stacking SGS-5220-24P2X ■ IPv4/IPv6 Layer 3 Static Routing

■ IEEE 802.10 VLAN / Private VLAN / O-in-O

■ IGMP snooping v2 and v3 / MLD snooping
■ IEEE 802.1s MSTP and loop protection ■ IPv6 Web interface / SNMP v1, v2c and v3 / SSH / SSL Management ■ 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP GS-5220-46S2C4X IPv4/IPv6 Layer 3 Static Routing
 IPv4/IPv6 Dual Stack management
 Intelligent SFP digital diagnostic monitor (DDM) ■ IEEE 802.1s MSTP and loop protection

■ Multicast VLAN registration and voice VLAN 2/4 10G SFP+ slots, compatible with 1000BASE-X SFP ■ IPv4/IPv6 Dual Stack Management ■ Web / SNMP v1, v2c, v3 / Telnet Remote IP Management | IEEE 802.1D/1w/1s STP, Layer 2/3/4 ACL
 | IEEE 802.1Q VLAN / Private VLAN / Q-in-Q
 | 802.1x / RADIUS / TACACS+ Authentication 20G/24G/48G + 2/4 10G SF ■ IGMP Snooping v1, v2 and v3 / MLD Snooping v1 and v2

■ IPv4/IPv6 Layer 3 Static Routing ■ 100BASE-FX / 1000BASE-SX/LX SFP Auto Detection ■ Hardware Stackable up to 16 units, 384 SFP slots ■ IEEE 802.10 VLAN / Private VLAN / O-in-O Policy-based OoS Control List / Bandwidth Control

■ 100~240V AC / 48V DC Power Redundant (GS-5220-16S8CR) ■ 802.10 VLAN / Private VLAN / Q-in-Q 802.1w Rapid Spanning Tree
 IGMP Snooping v1, v2 and Querier mode
 Policy-based QoS Control Laver 2/3/4 Access Control List SNMP v1. v2c. v3

 IEEE 802.1Q VLAN, GVRP, voice VLAN and private VLAN
 IEEE 802.1s MSTP, IPv4 IGMP snooping and IPv6 MLD snooping
 802.1x RADIUS and TACACS+ authentication, L2~L4 ACL
 IPv6 web management / SNMP v1, v2c and v3 / SSH / SSL management ■ Cable diagnostics, smart fan and power alarm

■ IP30 Metal Case and Fanless Design

Industrial Ethernet

Redundant Power System: Dual 36V~72V DC or 100V~240V AC

10~60 degrees C operating temperature

Pv4/IPv6 Dual Stack Management ■ IEEE 802.1D/1w/1s Ethernet Redundancy Laver 2/3/4 ACL and Port Security ■ Web / SNMP v1, v2c, v3 / Telnet Remote IP Management ■ 24-port 100/1000-X SFP mini-GBIC Slots with 4-port Shared Copper Interfaces
 Independent 4-port 1Gbps/10Gbps Fiber-optic SFP Interfaces

Front-access Interface improves operating efficiency
 Digital Input/Output controlling and redundant power input system

 Supports WEB/Telnet/SNMP Interface and IPv4/IPv6 System Managemen IGMP snooping, DHCP snooping
■ IEEE 802.1Q, Private VLAN ■ IEEE 802.3ad Link Aggregation Control Protocol
■ IEEE 802.1D/1w/1s Spanning Tree Protocol
■ Console / IPv4 Web interface / SNMP v1, v2c management

■ IPv4/IPv6 Layer 3 Static Routing IGS-5225-20T4C2X G.8032 ERPS ring supported 9" 24G + 2-Port 10G SFP Supports Modbus TCP/IP protocol for factory aut
 2 10GBASE-SR/LR SFP+ slots (IGS-5225-20T4C2X) IGS-5225-24P4S ■ Redundant power design, 2 DI and 2 DO IP30 metal case and fanless design L2+ Managed Ring Switch ■ -40 to 75 degrees C operating temperature

G.8032 ERPS ring supported
 Supports Modbus TCP/IP protocol for factory automation

Layer 2/3/4 ACL and port security

Web / SNMP v1, v2c, and v3 / Telnet remote IP management

Redundant Power System: Dual 36V~72V DC or 100V~240V AC IP30 metal case and fanless design 802.1Q VLAN / 802.1s MSTP / 802.3ad LACP

 Layer 2/3/4 Access Control List
 Supports Modbus TCP/IP protocol for factory automation ■ -40~75 degrees C operating temperature

■ PoE Schedule / Schedule Power Recycling / PD Alive Check ■ IPv4/IPv6 Layer 3 Static Routing Redundant power design, 2 DI and 2 DO -40 to 75 degrees C operating temperature

■ Hardware IPv4/IPv6 Layer 3 Static Routing Supports Modbus TCP/IP protocol for factory automation ■ 2 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP ■ Redundant power design: Dual 36~60V DC/48~56V DC ■ IPv4/IPv6 Laver 3 Static Routing

Redundant power design: Dual 12-48V DC/48~56V DC

40 to 75 degrees C operating temperature
4-port 60-watt IEEE 802.3bt PoE, up to 240-watt PoE budget (IGS-5225-4UP1T2S) Secure SNMP v1, v2c and v3 / SSH / SSL Management 8G TP + 2G SFP Managed 802.1Q VLAN / 802.1s MSTP / 802.3ad LACP

Supports Modbus TCP/IP protocol for factory automation

G.8032 ERPS ring supported

■ 12 ~ 48V DC redundant power design -40~75 degrees C operating temperature ■ IP30 aluminum metal case / DIN rail and wall mount design PoE Schedule / Schedule Power Recycling / PD Alive Check
Supports Modbus TCP/IP protocol for factory automation
48V DC redundant power input design, 2 DI and 2 DO

IPv6 Web Interface / Console / SNMP v1, v2c and v3 /

■ -40 ~ 75 degrees C operating temperature

48 ~ 56V DC redundant power design

■ 4 x 30W IEEE 802.3at PoE+ PSE port

8G 802.3at/af PoE+ 2G/4G SFP SSH / SSL Management IEEE 802.1Q VLAN / Private VLAN / Q-in-Q / 8-port IEEE 802.3at/af PoE (end-span PSE, 240W PoE budget) PoE schedule, scheduled power recycling, PD alive check
 LED indicators for PoE usage status (60W/120W/180W/240W)
 IEEE 802.1w/1s STP, IEEE 802.1Q VLAN, and IGMP snooping v2 and v3

> 4-port IEEE 802.3at PoE+, 144-watt PoE budget ■ PoE Schedule / Schedule Power Recycling / PD Alive Check 48-56V DC redundant power design
> IEEE 802.1Q VLAN, GVRP, Voice VLAN and Private VLAN
> IEEE 802.1s MSTP, IP94 IGMP snooping and IPv6 MLD snooping
> IPv6 web interface / SNMP v1, v2c and v3 / SSH / SSL management ■ -40 to 75 degrees C operating temperature

■ 8-Port 802.3at PoE+ end-span PSE w/30W output Hardware DIP switch for "Standard" and "Extend" mode selection
 The "Extend" mode features 30-watt PoE transmit distance of 250m ■ -40 ~ 75 degrees C operating temperature ■ IP67 aluminum case, outdoor installation Waterproof/dustproof RJ45/M12 Ethernet connector
 Supports Modbus TCP/IP protocol for factory automation

 Waterproof/dustproof M12 A-coded/X-coded Ethernet connector ■ IPv4/IPv6 Layer 3 Static Routing ■ G.8032 ERPS ring supported
O/100/10008ASE-T
Supports Modbus TCP/IP protocol for factory automation ■ Redundant power design: Dual 12~48V DC

PoE Schedule / Scheduled Power Recycling / PD Alive Check
 Secure SSL / SSH / SNMP v3 Management

■ 4-port IEEE 802.3at PoE, up to 144-watt PoE budget

-40 to 75 degrees C operating temperature

■ 4 IEEE 802.3af PoE ports

■ 12~48V DC redundant power design

Waterproof/dustproof design

IPv4/IPv6 Layer 3 Static Routing
 G.8032 ERPS ring supported
 Supports Modbus TCP/IP protocol for factory automation

over Ethernet Splitte GTP-805A IGTP-805A

POE-E101/E201/E202
IPOE-E202/IPOE-E172
802.3bt/at/af PoE Extender

IEEE 802.3at/ar Power over Extende to Extend the range of PoE an additional 100 meters
Forwards both Ethernet data and PoE power to remote devices
Automatically detects and protects PoE equipment

No external power cable required for installation ■ IEEE 802.3at/af Power over Ethernet compatible

■ Layer 2/3/4 ACL and MAC Access Control

 Up to 30fps Network Screen Projection
 VGA/1080p HDMI output (WIPG-300H)
 VGA/720p HDMI output (WPG-210N) WIPG-300H ■ 802.11n Wi-Fi AP-client mode Web Browser / SNMP Management
 Audio / Video streaming
 Windows XP/Vista/7/8, Mac OS X Plug & Show

Autodiscovers managed APs, up to 32 or 64 units

■ 802.1Q VLAN, 802.1x user authentication and loop protection

Ethernet over coaxial up to 1km (3,280ft) with 5C2V/RG6 75Ω cable Supports PoE power up to 25 watts

4-/8-/16-port Coax + 4G | IEEE 802.10 VLAN, IEEE 802.1s MSTP, IPv4 IGMP snooping and IPv6 MLD snooping
■ IPv4/IPv6 web management / SNMP v1, v2c and v3 / SSH / SSL management **Media Conversion**

■ SNMP v1, v2c and SNMP Trap SNIWP VI, VZC and SNIWP Trap
 FST-80x / CST-70x / CST-80x series compatible
 TS-1000 / 802.3ah OAM Remote Terminal Management
 Two power slots for Redundant Power Optional AC / -48V DC supplies ■ DIP Switch for Smart Function Setting Auto MDI/MDIX on TP Port

LLR/LLCF for Fiber Connection Diagnostic

Various optional fiber connectors on different mode

Manageable through MC-1610MR / MC-1610MR48 ■ FT-80x / FT-90x / FT-1105A / FT-1205A compatible AC Power acceptable
 10/19-inch Rack mountable AC/DC Hot-swappable Redundant Power

■ Auto MDI/MDI-X / Auto-negotiation on TP Port 10/100TX to 100FX Various optional fiber connectors on different model Media Converter Rear DIP switch for FX Duplex Mode selection (FT-80X)
 Side DIP switch for LFP Mode selection (FT-80X)
 10/19-inch Chassis compatible (MC-700 / MC-1500) ■ Remote IP-based Web Management SNMP v1, v2c and SNMP Trap ■ 802.10 VLAN / O-in-O VLAN Management

Power over Ethernet

LRP-101U-KIT

LRP-104CET

LRP-422CST

LRP-1622CS

LRP-822CS

1-Port Long Reach PoE

ong Reach PoE + 4-Port

Coaxial Managed Switch

10/100TX to 100FX

Smart Converter

Converter Chassis

Managed Media Converter

Media Converter

VC-232G/VC-234G

4-Channel 4-in-1 Video

VC-231G/

Re-use Existing Coaxial Cable for IP Camera

-10 to 60 degrees C Operating Temperature
 Free Fall, Shock, Vibration Industrial Stability

-20 to 70 degrees C operating temperature

Configure free, Plug and Play

Power over Coaxial up to 1km
 Power Input: External DC or PoE Power Input (LRP-101CH/LRP-101UH)

■ Power Output: PoE Power Output (LRP-101CE/LRP-101UE)

- Audput Coanai or Profile Civity
 - A-port IEEE 802.3at/af PoE standard compliant
 PoE usage LED display
 Power over coaxial or external 24-48V redundant power

■ 10/19-inch Chassis compatible ■ Dual 1000Base-X mini-GBIC SFP Slot One 10/100/1000BASE-T Copper Port
Jopot Gigabit Data Switching or Redundant Mode
IEEE 802.3x Flow Control
Wall Mount or DIN Rail Support Supports Fiber Optic up to 120km (Varies on SFP module)

■ Complies with IEEE 802.3ae 10GBASE-SR/LR

■ -40~75 degrees C operating temperature

Voice and Data communication can be shared on

■ Selectable Target Data Rate and Target SNR Margin

■ Compliant with 4-ch hybrid video (AHD/TVI/CVI/CVBS)

Video and data transmission over Gigabit fiber optic cable

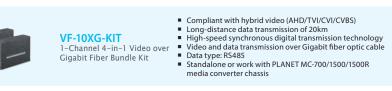
■ Long-distance data transmission of 20km

the existing telephone wire simultaneous

100 meters over Cat 6A at 10Gbps

IP30 metal caseLow power consumption

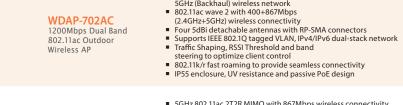


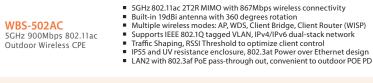




■ Data type: RS485

 Gigabit wired and 600Mbps wireless connectivity (Dual-N Band) Supports 802.10 tagged VLAN, IPV4/IPv6 dual-stack network
 Dual-image (dual-OS) auto-backup mechanism 600Mbps Dual Band 802.11n 802.3at PoE+ compliant Built-in surge arrester, IP66 case protection ■ Simultaneous 2.4GHz (Wi-Fi Access) and







Outdoor Wireless AP/CPE

WDAP-C7200AC

WDAP-W7200AC

1200Mbps 802.11ac

Wireless Access Point

802.11ac Wireless

1200Mbps 802.11ac Dual

Dual Band Ceiling





 10/100Mbps LAN port, 802.3at/af PD supported
 IEEE 802.11b/g/n standard compliant Multiple Operation Modes: AP, Client, WDS, Universal Repeater Self-healing mechanism for reliable connection Simplify deployment via PLANET AP controller ■ Next Generation 802.11ac Wi-Fi up to 1200Mbps ■ Simultaneous dual-band connectivity in 2.4GHz 300Mbps and

Compliant with IEEE 802.11a/b/g/n
 Built-in 4-port 100/1000Mbps Gigabit switch

■ 1 x USB 2.0 port supports storage and DLNA

and 5GHz 867Mbps

■ Supports DHCP server, DDNS, DMZ, Virtual Server and Port Triggering

Wireless N speed up to 300Mbps

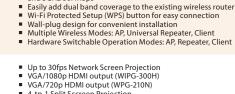
Dual-band (2.4GHz & 5GHz) wireless technology

Simplifies deployment via PLANET Wireless AP Controller

capable of up to 300+866Mbps data rate

Traffic Shaping, RSSI Threshold to optimize client contro

■ IP55 enclosure, UV resistance and passive PoE design



■ Simultaneous dual-band connectivity in 2.4GHz 300Mbps

Locally maintains configuration profiles for all managed APs
 Centrally monitors all managed APs' statuses and associated client list

■ Built-in 802 3at PoE+ ports to directly manage AP power control

 Next-generation 802.11ac Wi-Fi up to 1750Mbps Dual-band (2.4GHz & 5GHz) technology capable of up to 450+1300Mbps data rate
 1x802.3at/PD Gigabit port and 1x802.3at/PSE Gigabit port (WDAP-1750AC) Multiple Wireless Modes: AP, WDS Bridge, WDS Repeater ■ Built-in RADIUS Server enabling enterprise-class security mode

Multiple Operation Modes: AP, client, WDS, Universal repeater

Digital Video Recorder

ICA-E5550V

■ Supports management, IVS and ALPR software ■ 2.8~12mm vari-focal, fixed iris lens Maximum resolution 2592 x 1944 at 15fps
 Compliant with IEEE 802.3af PoE interface WDR / DNR / IPv6 / ONVIF / micro SD Day & Night with adaptive IR LED IK10 / IP66 enclosure with vandal and weather proof Supports management, IVS and ALPR software

Enterprise HD PoE IP Phone

SMS / Speed Dial / BLF / VPN (L2TP)

Supports phonebook with 500 records
Dual Gigabit Ethernet ports (1 WAN, 1 L Color screen and digital picture frame mode
 TR069 / SNMP / VLAN QoS (802.1pq)
 Supports Bridged Line Appearance (BLA) and Busy Lamp Field (BLF)

VDR-301N

IDL-4802

IP DSLAM

CV7-VA

E-series of IP Cameras

Bridge Router FRT-415N SPI firewall for anti-DoS prevention
 Quality of Service Control for FTTH applications
 IEEE 802.11b/g/n wireless technology 802.11n Wireless

Up to 1.25Gbps Upstream and Downstream
 Distance up to 20km

Home Automation ■ Z-Wave Plus[™] certified HAC-1000A Energy and cost saving by automatically/manually turning off





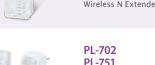


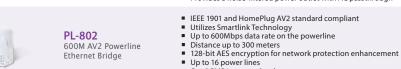




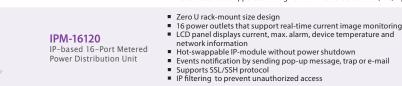








 HDCP-compliant and Blu-ray ready
 High Compression Streaming for saving Bandwidth
 Support IR extension and Automatic EDID 1-to-1,1-to-many and multi-casting broadcasting architectures 4/8 power outlets that can be managed in multiple ways



IoT & IIoT Network Infrastructure Solutions

