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Industrial-grade Power over Ethernet Solution



cartronicgroup

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Advantages of PLANET PoE Solutions

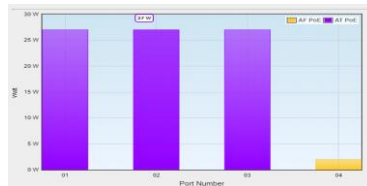


- ◆ IEEE 802.3bt PoE++ compliant
- ◆ Intelligent PoE management functions
- ◆ 2.5Gbps PoE port
- ◆ 10Gbps Fiber-optical Link Capability
- ◆ Comprehensive **commercial** and **industrial** grade product portfolio
 - Managed PoE Switches, Touch LCD PoE Switches
 - PoE Injector Hubs
 - PoE Injectors, Splitters, Extenders, and more

Intelligent PoE Management

- ◆ **Real-time** powered devices status
- ◆ **Monitor** connected PD status; **the PoE port power can be immediately resumed** to bring the PD back to work if disconnection happened.
- ◆ PoE devices can be **scheduled to turn off/on** for energy saving.

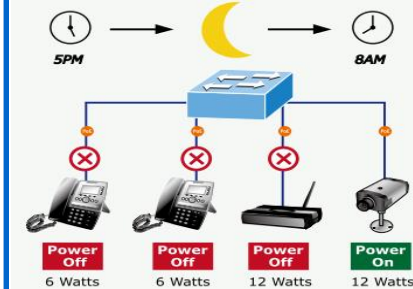
Real-time PoE Status



PD Alive Check



PoE Schedule for Energy Saving



Intelligent PoE Management

Schedule PoE Power Recycle

PD (Powered Device) Alive Check

Force Power

- ◆ **Directly deliver power** over UTP cable
- ◆ Provide to disable or enable PoE Force mode

PoE System Management

- ◆ PoE Budget Overloading Protection
- ◆ PoE Temperature Threshold
- ◆ PoE Power Usage Threshold
- ◆ Power Feeding Status Monitoring

PoE Port Configuration

- ◆ PoE mode control
- ◆ Power feeding on/off/schedulable and priority configuration
- ◆ Power Limit function for PoE power management
- ◆ Auto detect powered device and consumption levels
- ◆ Classify connected powered devices

Environmental Adaptation in Outdoor Area

- ◆ **IP67** protection
- ◆ Waterproof and Dustproof
- ◆ -40~75 degree C operating temperature



Industrial Outdoor PoE Devices

Industrial Layer 3 PoE+ Switches

Rack-mountable Industrial Layer 3 PoE+ Switch

- ◆ 4 x 1G/2.5G/**10G SFP+** slots (*IGS-6325-24P4X*)
- ◆ IPv4/IPv6 Static routing and **OSPFv2 dynamic routing**
- ◆ **4 x 100/1000X SFP slots for Fiber-optical Link**
- ◆ IPv6/IPv4 Static routing
- ◆ IPv6 IP Address/NTP/DNS management
- ◆ PoE Power up to **36 watts** for each PoE ports
- ◆ Total **400-watt** PoE budget
- ◆ Auto detect powered device (PD)
- ◆ **-40 ~ 75 degrees C** operating temperature
- ◆ VLAN, Spanning Tree Protocol
- ◆ IEEE 802.1x Port-based/MAC-based network access authentication
- ◆ **ERPS** (Ethernet Ring Protection Switching)
- ◆ **DDM** (Digital Diagnostic Monitor)



IGS-6325-24P4S



IGS-6325-24P4X

DIN-rail Industrial Layer 3 PoE+/PoE++ Switch

- ◆ IPv4/IPv6 Static routing and **OSPFv2** dynamic routing
- ◆ **2/4 x 100/1000X SFP** slots for Fiber-optical Link
- ◆ **2 x 1G/2.5G/10G SFP+** slots for high-bandwidth link
(IGS-6325-8UP2S2X, IGS-5225-8P2S2X)
- ◆ IPv6 IP Address/NTP/DNS management
- ◆ PoE Power up to 36 watts for each PoE+ ports,
up to **95 watts** for each PoE++ ports
- ◆ **-40 ~ 75 degrees C** operating temperature
- ◆ VLAN, Spanning Tree Protocol
- ◆ IEEE 802.1x Port-based/MAC-based network access authentication
- ◆ **ERPS** (Ethernet Ring Protection Switching)
- ◆ **DDM** (Digital Diagnostic Monitor)



IGS-6325-8UP2S2X
(PoE++, Max.360W)



IGS-6325-8UP2S
(PoE++, Max.360W)



IGS-6325-16P4S
(PoE+, Max. 240W)



IGS-20160HPT
(PoE+, Max. 240W)



IGS-5225-8P2S2X
(PoE+, Max. 240W)

DIN-rail L3 Managed PoE+/PoE++ Switch Family

Model	RJ45 Port	PoE Port	PoE Budget	1G SFP Port	10G SFP+ Port
 IGS-6325-8UP2S2X	8	8 x 802.3bt PoE++	360-watt	2 (1G / 2.5G SFP)	2
 IGS-6325-8UP2S	8	8 x 802.3bt PoE++	360-watt	2 (1G / 2.5G SFP)	-
 IGS-6325-16P4S	16	16 x 802.3at PoE+	320-watt	4 (1G / 2.5G SFP)	-
 IGS-20160HPT	18	16 x 802.3at PoE+	320-watt	2 (1G / 2.5G SFP)	-
 IGS-5225-8P2S2X	8	8 x 802.3at PoE+	240-watt	2 (1G / 2.5G SFP)	2

Industrial Layer 2 PoE+ Switches

Industrial Layer 2+ PoE+/PoE++ Switch

- ◆ PoE Power up to 36 watts for each PoE+ ports, up to **95 watts** for each PoE++ ports
- ◆ **2/4 x 100/1000X SFP slots** for Fiber-optical Link
- ◆ IPv6/IPv4 Static routing
- ◆ IPv6 IP Address/NTP/DNS management
- ◆ **-40 ~ 75 degrees C** operating temperature
- ◆ VLAN, Spanning Tree Protocol
- ◆ IEEE 802.1x Port-based/MAC-based network access authentication
- ◆ **ERPS** (Ethernet Ring Protection Switching)
- ◆ **DDM** (Digital Diagnostic Monitor)
- ◆ **2 x DI/DO**



IGS-5225-4UP1T2S
(PoE++, Max. 240W)



IGS-10020HPT
(PoE+, Max. 240W)



IGS-5225-8P4S
(PoE+, Max. 240W)



IGS-5225-8P2T2S
(PoE+, Max. 240W)



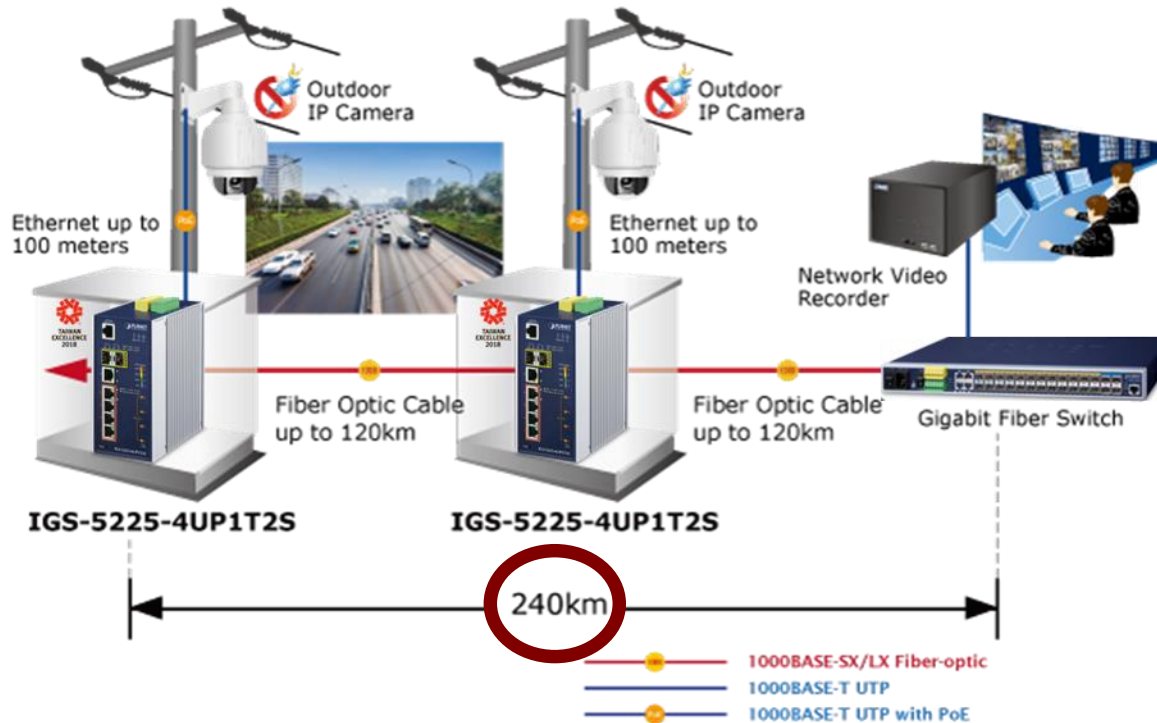
IGS-5225-4P2S
(PoE+, Max. 144W)

DIN-rail L2 Managed PoE+/PoE++ Switch Family

Model	RJ45 Port	PoE Port	PoE Budget	1G SFP Port
 IGS-10020HPT	8	8 x 802.3at PoE+	240-watt	2 (1G / 2.5G SFP)
 IGS-10020PT	8	8 x 802.3at PoE+	240-watt	2 (1G / 2.5G SFP)
 IGS-5225-8P2T2S	10	8 x 802.3at PoE+	240-watt	2
 IGS-5225-8P4S	8	8 x 802.3at PoE+	240-watt	4
 IGS-5225-4P2S	4	4 x 802.3at PoE+	144-watt	2
 IGS-5225-4UP1T2S	5	4 x 802.3bt PoE++	240-watt	2

Industrial PoE++ Fiber Switch Application

- Fiber-Optical Link Capability Extends the Range of Network Deployment



EN50155 Railway - Industrial Layer 2 PoE+ Switch

- ◆ IPv6 IP Address/NTP/DNS management
- ◆ PoE Power up to **36 watts** for each PoE ports
- ◆ Auto detect powered device (PD)
- ◆ VLAN, Spanning Tree Protocol
- ◆ **ERPS** (Ethernet Ring Protection Switching)
- ◆ IEEE 802.1x Port-based/MAC-based network access authentication
- ◆ **-40 ~ 75 degrees C** operating temperature
- ◆ **Waterproof and dustproof** RJ45 copper
(IGS-604HPT-RJ, IGS-5226-4P2T)
- ◆ **Waterproof M12 connectors** (IGS-604HPT-M12)



IGS-604HPT-RJ



IGS-5226-4P2T



IGS-604HPT-M12



IGS-5227-4MP2MT



IGS-5227X-4P2T

24~48V

12~56V

Industrial Layer 2/4 PoE+ Switches

Industrial Layer 2/4 PoE+ Switch

- ◆ **Fiber-optical Link Capability**
(IGS-4215-8P2T2S, IGS-4215-4P4T2S)
- ◆ **IPv6/IPv4 Web/Telnet/SNMP (v1, v2c, v3)/SSH/SSL Management**
- ◆ **IPv6 IP Address/NTP/DNS management**
- ◆ **PoE Power up to 36 watts** for each PoE ports
- ◆ **Auto detect powered device (PD)**
- ◆ **-40 ~ 75 degrees C** operating temperature
- ◆ **VLAN, Spanning Tree Protocol**
- ◆ **IEEE 802.1x Port-based/MAC-based network access authentication**
- ◆ **DDM** (Digital Diagnostic Monitor)



IGS-4215-8P2T2S
(2 x 100/1000X SFP slots)



IGS-4215-4P4T2S
(2 x 100/1000X SFP slots)



IGS-4215-4P4T

Unmanaged PoE Switches

DIN-rail Unmanaged Gigabit PoE Switch

- ◆ Complies with **IEEE 802.3bt** PoE++ type 4 PSE
(IGS-824UPT)
- ◆ Supports PoE power up to **95 watts** for each PoE port
(IGS-824UPT)
- ◆ Complies with **IEEE 802.3at** PoE+, end-span PSE
- ◆ Supports PoE power up to **30 watts** for each PoE port
(IGS-1020PTF-12V, IGS-504PT)
- ◆ Backward compatible with **IEEE 802.3af** PoE
(IGS-1020PTF-12V, IGS-504PT)
- ◆ Auto detects powered device (PD)
- ◆ Circuit protection prevents power interference between ports
- ◆ Remote power feeding up to **100 meters**



IGS-824UPT



IGS-1020PTF-12V



IGS-504PT

DIN-rail Unmanaged Fast Ethernet PoE Switch

- ◆ Complies with **IEEE 802.3at** PoE+, end-span PSE
- ◆ Backward compatible with **IEEE 802.3af** PoE
- ◆ Up to 8 ports of **IEEE 802.3af/802.3at** devices powered
- ◆ **240-watt** PoE budget (*IFGS-1022HPT*)
- ◆ **180-watt PoE** budget (*ISW-808PT-M12*)
- ◆ PoE Extend mode up to **250m** (*ISW-514PTF*)
- ◆ Auto detects powered device (PD)
- ◆ Circuit protection prevents power interference between ports
- ◆ Remote power feeding up to **100 meters**



IFGS-1022HPT



ISW-514PTF

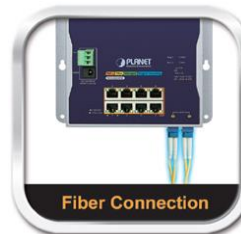


ISW-808PT-M12
(IP67-rated)

Flat-type PoE+ Switches/ Routers

Perfect IP Network Deployment for Buildings and Factories

- Specially designed for narrow environment, such as weak electric box
- DIN-rail, Wall-mounted, or **Magnetic Installation**
- “**Front Access**” design makes the installing, cable wiring, LED monitoring and maintenance very easy



Flat-type Touch LCD L2+ Managed PoE Switch

- ◆ User-friendly 2.4-inch **Touch Color LCD Display**
 - ◆ Port Management
 - ◆ Port Status
 - ◆ PoE Port/PD Management
 - ◆ Cable Diagnostic
- ◆ 2 x 100/1000/2500X SFP slots for Fiber-optical Link
- ◆ **ERPS Ring** Data Recovery time < 10ms
- ◆ IPv4/IPv6 Layer 3 static routing
- ◆ **Cybersecurity** protection
- ◆ Supports Modbus TCP/IP Protocol
- ◆ **802.3at PoE+ with intelligent PoE management**
- ◆ Supports ONVIF detection

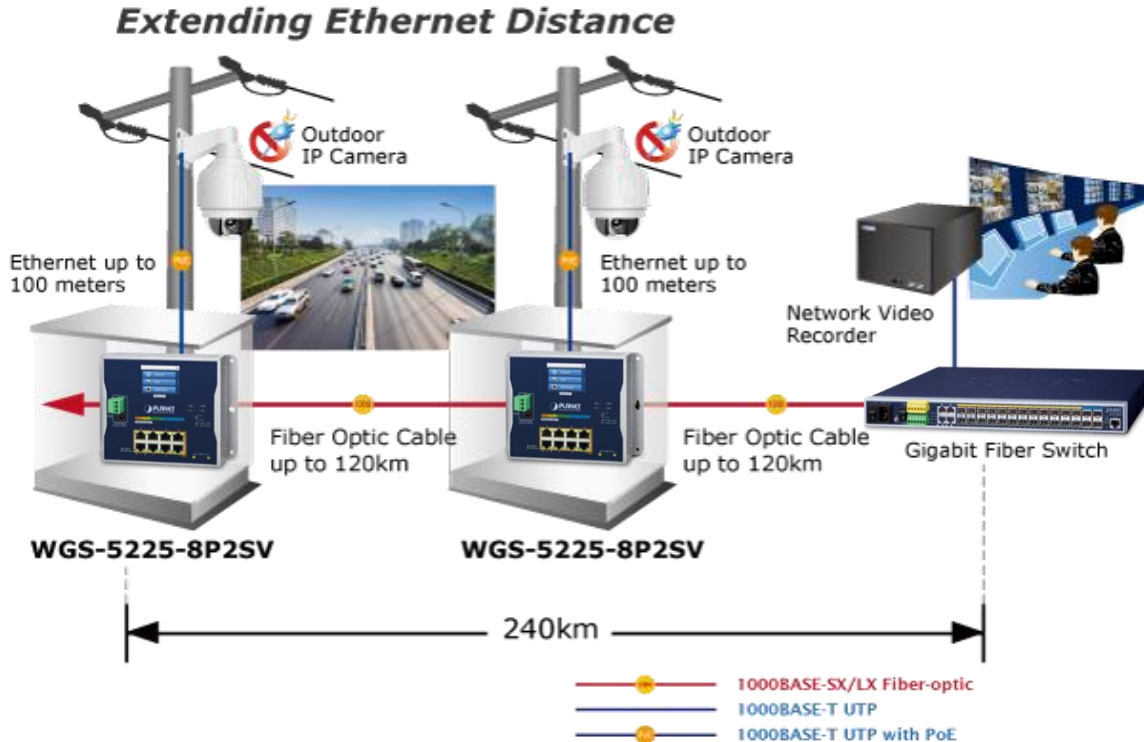
• PoE Port Management



WGS-5225-8P2SV



Flat-type Managed PoE Switch Application



Flat-type PoE Switch Family

Model	Management	RJ45	PoE	PoE Budget	Power	LCD	1G SFP Port	Operating Temp
 WGS-5225-8P2SV	L2+	-	8	240W	Dual	□	2 (1G / 2.5G SFP)	-20~70°C
 WGS-5225-8P2S	L2+	-	8	240W	Dual	-	2 (1G / 2.5G SFP)	-40~75°C
 WGS-4215-16P2S	L2/L4	-	16	240W	Dual	-	2	-10~60°C
 WGS-4215-8P2S	L2/L4	-	8	240W	Dual	-	2	-40~75°C
 WGS-804HPT	L2/L4	4	4	144W	Dual	-	-	-40~75°C
 WGS-818HP	Unmanaged	-	8	120W	DC Jack	-	-	-20~60°C
 WGS-814HP	Unmanaged	4	4	60W	DC Jack	-	-	-20~60°C
 WGS-804HP	Unmanaged	4	4	120W	Dual	-	-	-10~60°C

Flat-type Smart Router

- ◆ **2.4-inch color LCD touch screen** with management functions
(WGR-500-4PV)
- ◆ **802.3af/at PoE** injector, 120-watt PoE budget
- ◆ LED indicators for per port PoE In-Use and **PoE Power Usage**
- ◆ PoE Schedule/ Schedule Power Recycle/ PD alive check
- ◆ Firewall with 802.1Q **VLAN** security
- ◆ **IPv6** and SNMP management support
- ◆ **Wizard** design and PLANET DDNS support
- ◆ **SNMP**, Port Forwarding, DMZ, and UPnP
- ◆ Hardware NAT accelerates internet NAT routing performance
- ◆ Dual redundant power input: terminal block and DC jack
- ◆ Wall-mount, Magnetic wall-mount, DIN-rail installation



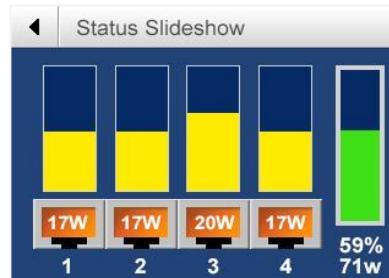
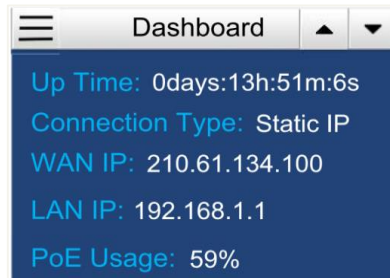
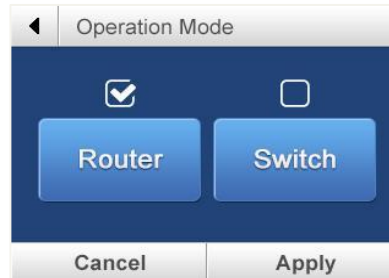
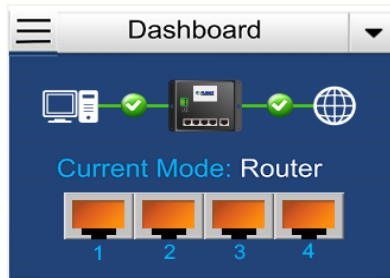
WGR-500-4PV



WGR-500-4P

LCD Control by WGR-500-4PV

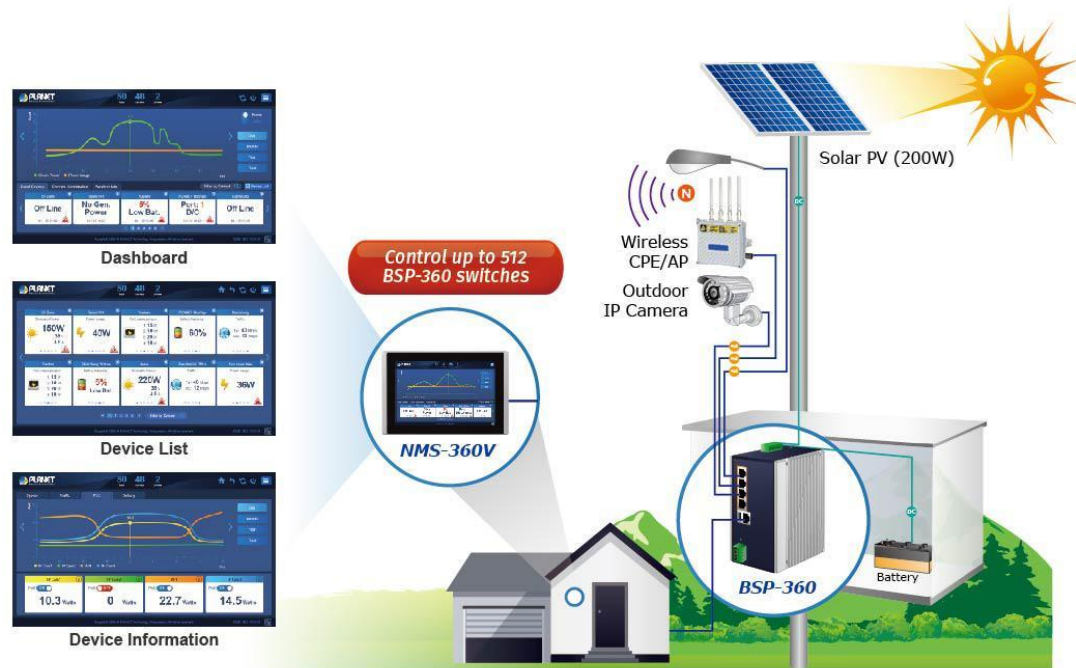
- ◆ Intuitive LCD touch panel of the WGR-500-4PV facilitates the operation management and PoE PD management.



Renewable Energy PoE Switch

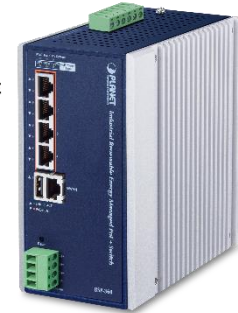
Renewable Energy PoE Network

Intuitive and user-friendly management of renewable energy, PoE and network traffic



Renewable Energy PoE Managed Switch

- ◆ Integrates **green energy solar power, wind power** and PoE
- ◆ Smart power management system, co-working with 200 watts solar PV kit or wind power generator and battery
- ◆ 4-port IEEE **802.3at PoE+** compliant, 120-watt PoE budget
- ◆ 24V DC output
- ◆ **Remote Web-based power monitoring, power usage statistics**
- ◆ Remote PoE power management
 - ◆ PD alive check
 - ◆ Scheduled power recycling
 - ◆ PoE schedule
 - ◆ PoE usage monitoring
- ◆ SNMP Trap, Event log
- ◆ **MQTT, SNMP** protocol and **PLANET Smart Discovery** utility



BSP-360

Renewable Energy Management Controller Series

- ◆ Auto discovery of up to **512 BSP-360 units**
- ◆ Stylish TFT-LCD touch screen display and aluminum die-cast front bezel and chassis (*NMS-360V*)
- ◆ Central provisioning and remotely control over each managed device
- ◆ Dashboard for **system event summary and device event** notification
- ◆ Quickly view device **green power, power usage and traffic** with history graph
- ◆ **Setup Wizard, e-mail alarm** notification
- ◆ **Map viewing** and monitoring **IP cam snapshots**
- ◆ Backup and restore via USB 3.0
- ◆ Supports **PLANET DDNS, Easy DDNS**



NMS-360V (12"/10")



NMS-360



Video

PoE Injectors/ Splitters /Extenders

Industrial 802.3bt PoE++ Injector

- ◆ IEEE 802.3bt, 802.3at/af **End-span** and **Mid-span** mode
- ◆ Supports 30W /**60W/95W** IEEE **802.3bt**/at standard PoE device
- ◆ **-40 to 75 degrees C** operating temperature
- ◆ Plug and play
- ◆ Remote power feeding up to 100 meters
- ◆ Compact size metal case protection



IPOE-175
60W PoE Injector



IPOE-171-60W
IPOE-171-95W
60W/95W PoE Injector

Industrial 802.3bt PoE++ Splitter

- ◆ Complies with IEEE **802.3bt PoE++** standard
- ◆ 10/100/1000BASE-T data + power port
- ◆ Supports 12V DC, 60-watt power output (*IPOE-175S*),
70-watt power output (*IPOE-173S*)
- ◆ **-40 to 75 degrees C** operating temperature
- ◆ Plug and play
- ◆ IP67-rated water-proof protection and IK10-rated
aluminum case (*IPOE-175S*)
- ◆ IP30 metal case (*IPOE-173S*)



IPOE-175S



IPOE-173S

Industrial 802.3bt PoE++ Extender

- ◆ **-40 to 75 degrees C** operating temperature
- ◆ Complies with IEEE **802.3bt PoE++** standard
- ◆ Extends the range of PoE an **additional 100 meters** (328ft.)
- ◆ Automatically detects and protects PoE equipment from being damaged by incorrect installation
- ◆ Plug and Play



IPOE-E302



IPOE-E174

PoE Media Converter

Industrial PoE++ Media Converter

- ◆ IEEE **802.3bt PoE++** compliant PSE, backward compatible with 802.3at PoE+
- ◆ PoE power up to **95 watts** for PoE port
- ◆ Supports optional PoH and force mode
- ◆ **12~56V DC redundant power** input
- ◆ Real-time power fault relay alarm
- ◆ -40 to 75 degrees C operating temperature
- ◆ IP30 metal case
- ◆ DIN-Rail and wall-mountable design
- ◆ 6KV DC EFT protection for power line, 6KV DC Ethernet ESD protection



IGUP-2205AT



IGUP-1205AT

Industrial PoE+ Media Converter

IGTP-80x series



IGTP-805AT , IGTP-815AT

- 1-port 10/100/1000BASE-T 802.3at PoE+
- 1-port 100/1000BASE-X SFP
- -40 to 75 degrees C wide operating temperature



IGTP-802TS

- SC Fiber Interface with Single-mode
- Distance up to 10km

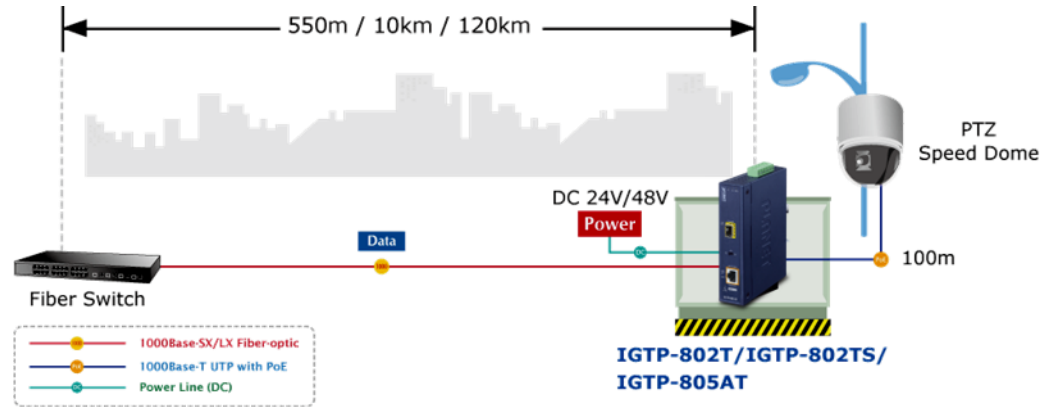
IGTP-802T

- SC Fiber Interface with Multi-mode
- Distance up to 220m/550m



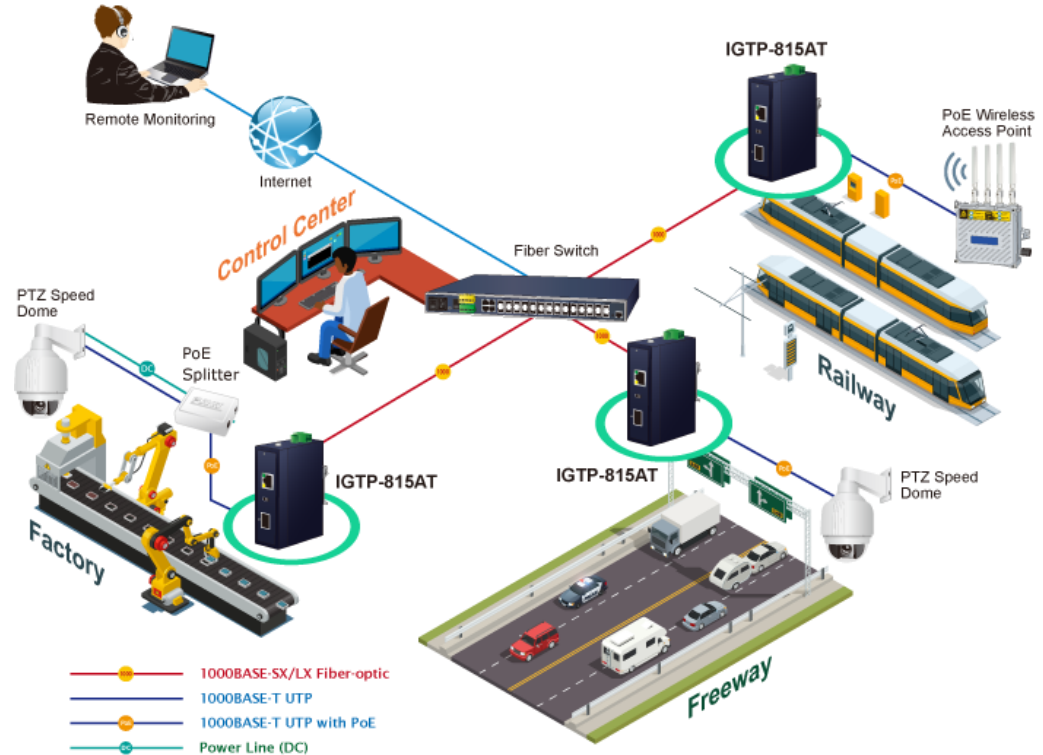
IGTP-825AT

- IP67 and IK10 aluminum case protection
- Waterproof and vibration-proof for reliable data connect for hardened environments



Industrial PoE Media Converter Application

- **Flexible and User-friendly PoE Deployment**



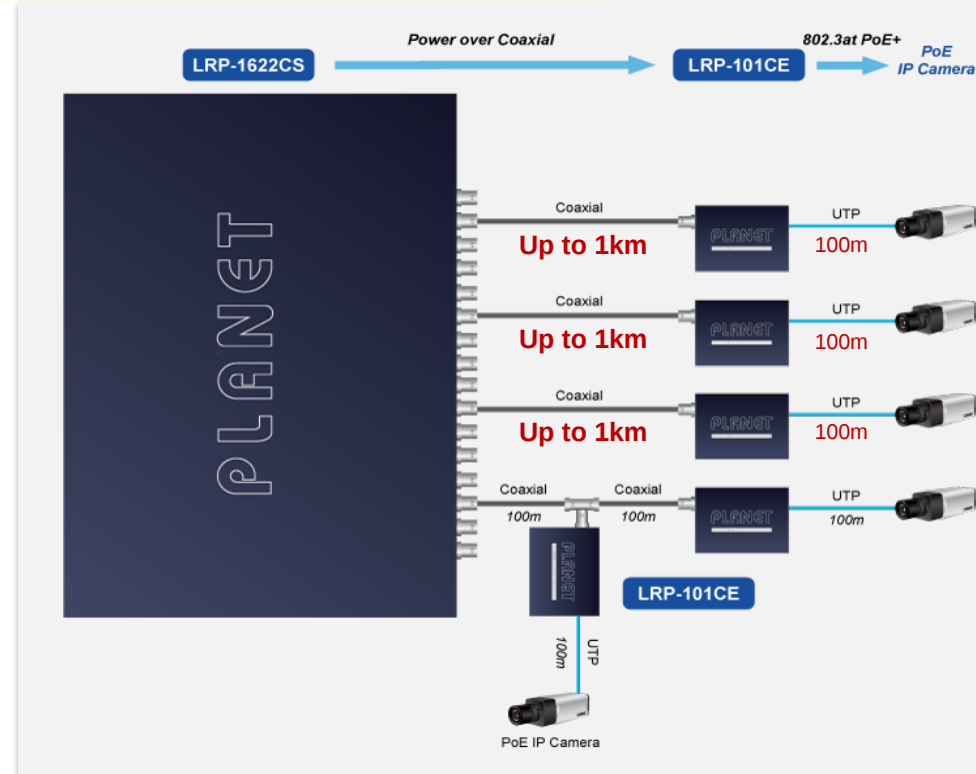
Long Reach PoE Solution (LRP Solution)

Long Reach PoE (LRP) Solution

Unique Solution to Long Distance Networking

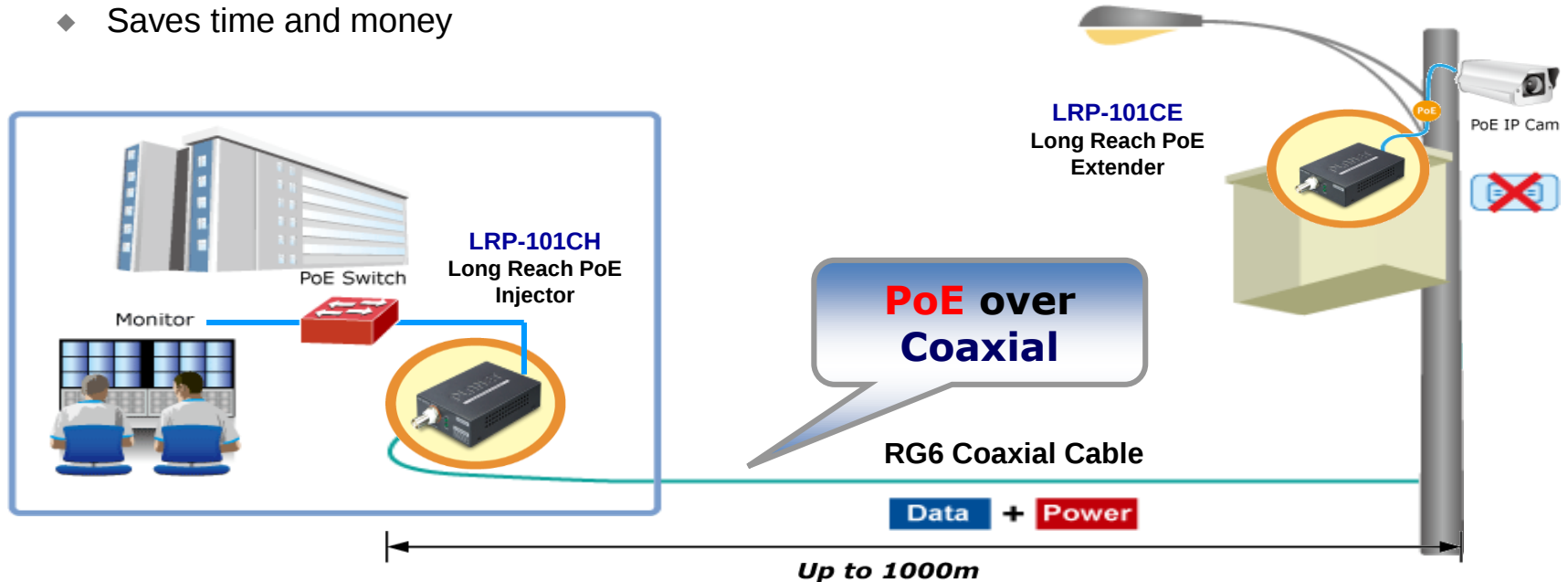
- ◆ Extend data transmission and inject power to a distance of up to **1km**
- ◆ Central Power Management
- ◆ IEEE **802.3bt/at/af** PoE compliant
- ◆ Supports Long Reach PoE power up to **75 watts***
- ◆ Supports PoE power up to 60 watts*
- ◆ Remote PD alive check and reboot
- ◆ Schedule power reboot
- ◆ Data Link redundant

Remark: *depends on power source and cable distance



Advantages of PoE over Coaxial

- ◆ Provides power to the receiver up to 1000m in distance
- ◆ No need to find power outlet in every location
- ◆ Saves time and money



Long Reach PoE over Coaxial Family

Gigabit Ethernet +
Ultra PoE



LRP-201-KIT

Industrial Long Reach PoE over Coax/UTP Extender Kit

Ultra PoE, 10/100/1000T Coaxial/UTP combo
-20 ~ 70 degrees C, IP30 slim-type case

Fast Ethernet +
802.3at PoE



LRP-101CE
1-Port Long Reach PoE
over Coaxial Extender



LRP-101C-KIT
Long Reach PoE over
Coaxial Extender Kit



LRP-104CET
LRP Extender
-40~75 degrees C, 4 x
PoE



LRP-422CST
4-Port Coax + 4G
LRP Managed Switch



LRP-1622CS
16-Port Coax + 4G
LRP Managed Switch



LRP-822CS
8-Port Coax + 4G
LRP Managed Switch

Unmanaged / Single-port

Managed / Multi-port

Long Reach PoE over UTP Family

Gigabit Ethernet +
Ultra PoE



LRP-201-KIT

Industrial Long Reach PoE over Coax/UTP Extender Kit

Ultra PoE, 10/100/1000T Coaxial/UTP combo
-20 ~ 70 degrees C, IP30 slim-type case

Fast Ethernet +
802.3at PoE



LRP-101U-KIT

Long Reach PoE over
UTP Extender Kit



LRP-104CET

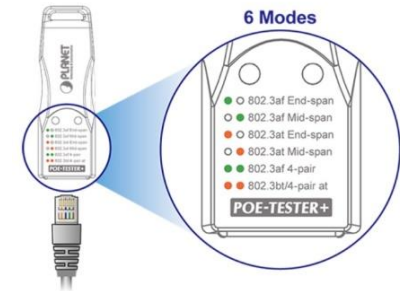
LRP Extender
-40~75 degrees C, 4 x PoE

Unmanaged / Single-port

Managed / Multi-port

PoE Tester+

- ◆ **IEEE 802.3bt/at/af PoE compliant**
- ◆ **Quickly tests RJ45 outlet for Power over Ethernet existence**
- ◆ **Two bi-color LEDs indicate the PoE standards and types of PSE**
(power source equipment)
 - ◆ IEEE 802.3af PoE
 - ◆ IEEE 802.3at PoE+
 - ◆ IEEE 802.3bt PoE++
 - ◆ End-span PoE switch
 - ◆ Mid-span PoE injector / injector hub
 - ◆ 4-pair, end-span + mid-span 802.3bt PoE++ switch/injector
- ◆ **Compact size, Plug and Play design**



◆ **View PLANET Power over Ethernet solution online**



Power over Ethernet



Power over Ethernet
Product Selector



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www.grupocartronic.com