



Intelligent Transportation System

Comprehensive Network Solution for Transportation Infrastructure

Reliable Network Transmission for ITS Infrastructure

Designed for transport network and rolling stock applications with uninterrupted operation and trustable network transmission, PLANET Intelligent Transportation System Solution is compliant with various advanced features, such as 10Gbps SFP, Modbus, ERPS Ring, Cyber Security and ITS certifications EN50155 and E-Mark to meet all the transmission needs, be it Information, Control or Device.

PLANET's internationally-certified devices are sure to meet all your smart transportation requirements.



Total Industrial Networking Solution

PLANET Industrial Ethernet product portfolio, including 95W 802.3bt Industrial Power over Ethernet, Industrial Cellular Gateway, LoRa AIoT and Renewable Energy Network Solution, provide complete networking technologies to meet the metropolitan and rural communication network applications.



Strict Network Security

PLANET IEC 62443-4-1 certified devices, designed for Industrial Network Security Protection and compliant with Cyber Security, Industrial VPN, SPI firewall and IPS, provide secure data transmission and privacy.



Unique Flat-type and Touch LCD Design

PLANET unique Flat-type Ethernet design is suitable for space-saving network installation, like wall enclosure or electric box found in buildings or outdoors. With the LCD Touch Screen, IT staff can immediately trouble-shoot any problems with ease.

 **ERPS Ring for Network Redundancy**

 **IEEE 1588 Protocol (PTP)**

 **Intelligent PoE Management**

 **5G NR / 4G LTE Cellular Options**

 **IEEE 802.11ax Dual Band Operation**

 **12V DC Power Supply**


 **IEC 62443-4-1 Certified**

 **ISO 27001 Certified**

 **E-Mark Certified**

 **EN50155 Certified**

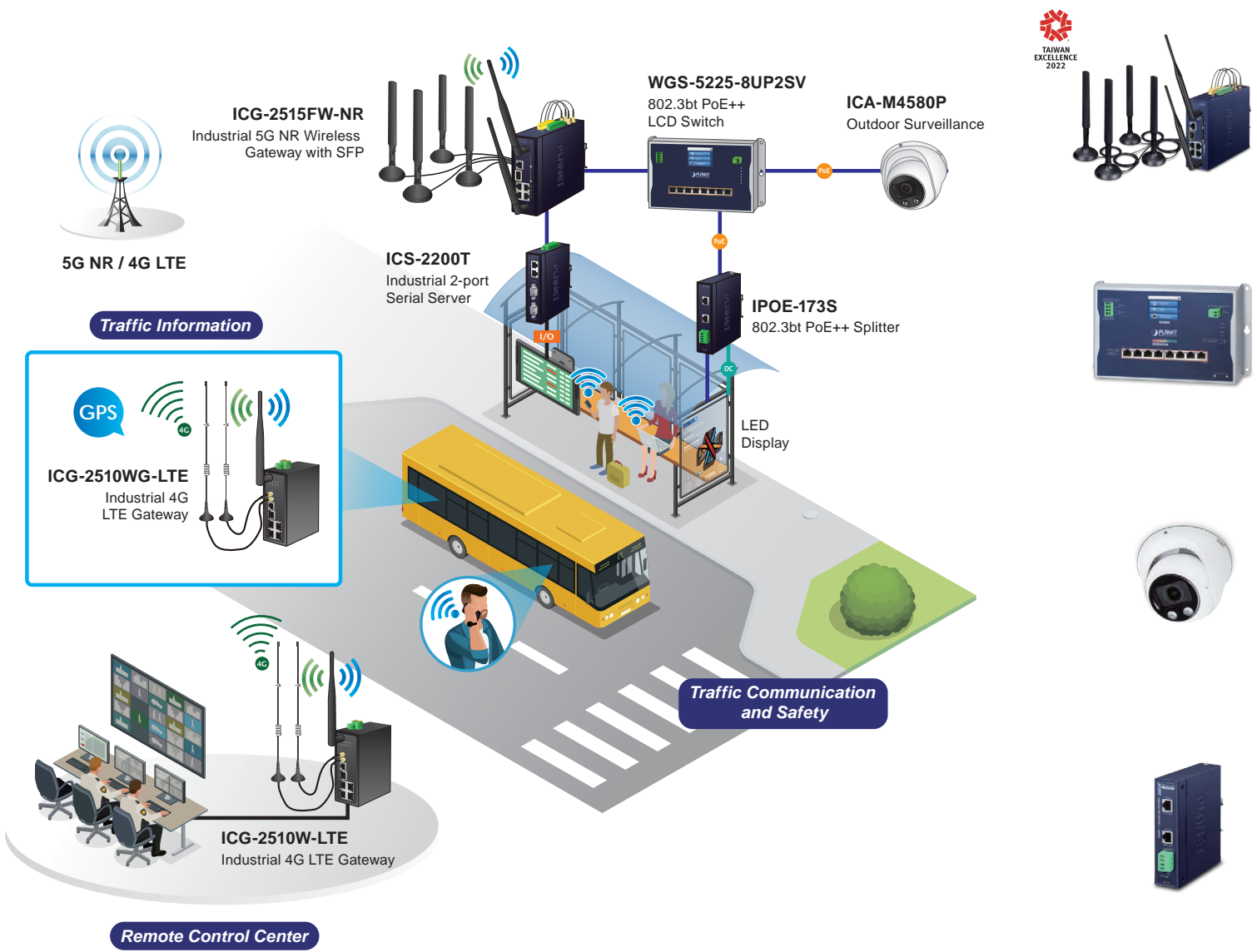
 **EN50121-4 Certified**

 **EN61000-6-2/-4 Heavy Industrial EMC**



Public Transportation

Mobility connectivity brings security, communications and service management



5G NR/ 4G LTE Cellular and Wireless Deployment

ICG-2515FW-NR

Industrial 5G NR Cellular Wireless Gateway with 1-Port 1000X SFP



Industrial Flat-type Gigabit Power over Ethernet

WGS-5225-8UP2SV

Industrial L2+ 8-Port 802.3bt PoE + 2-Port 1G/2.5G SFP Switch with Touch LCD



Safe and Secure High-resolution Surveillance

ICA-M4580P

H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom



Data and Power Transmission for Non-PoE Device

IPOE-173S

Industrial Single-Port 10/100/1000Mbps 802.3bt PoE++ Splitter





Railway Station

EMC certified and robust networking for rolling stock application



Industrial Heavy EMC Gigabit PoE++ Switch
IGS-6329-8UP2S2X / ICG-6329-8UP2S4X

Industrial L3 8-Port 802.3bt PoE + 2/4-Port 1G/2.5G SFP + 10G SFP Ethernet Switch



Signaling Equipment Control System
ICS-2100T / ICS-2200T / ICS-2400T

Industrial RS232/RS422/RS485 Serial Device Server



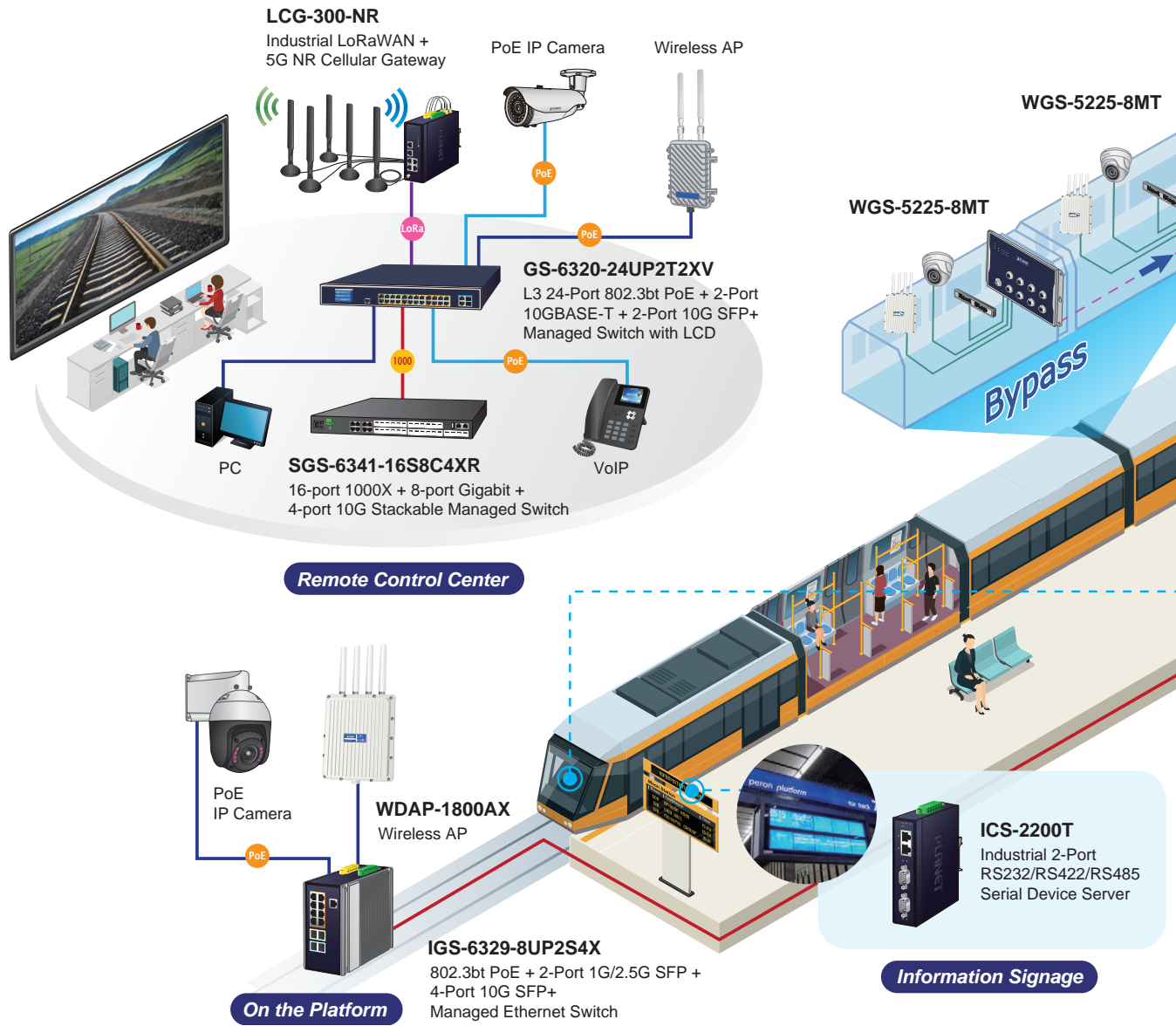
Long-range IoT Environment Monitoring System
LCG-300-NR

Industrial LoRaWAN + 5G NR Cellular Gateway



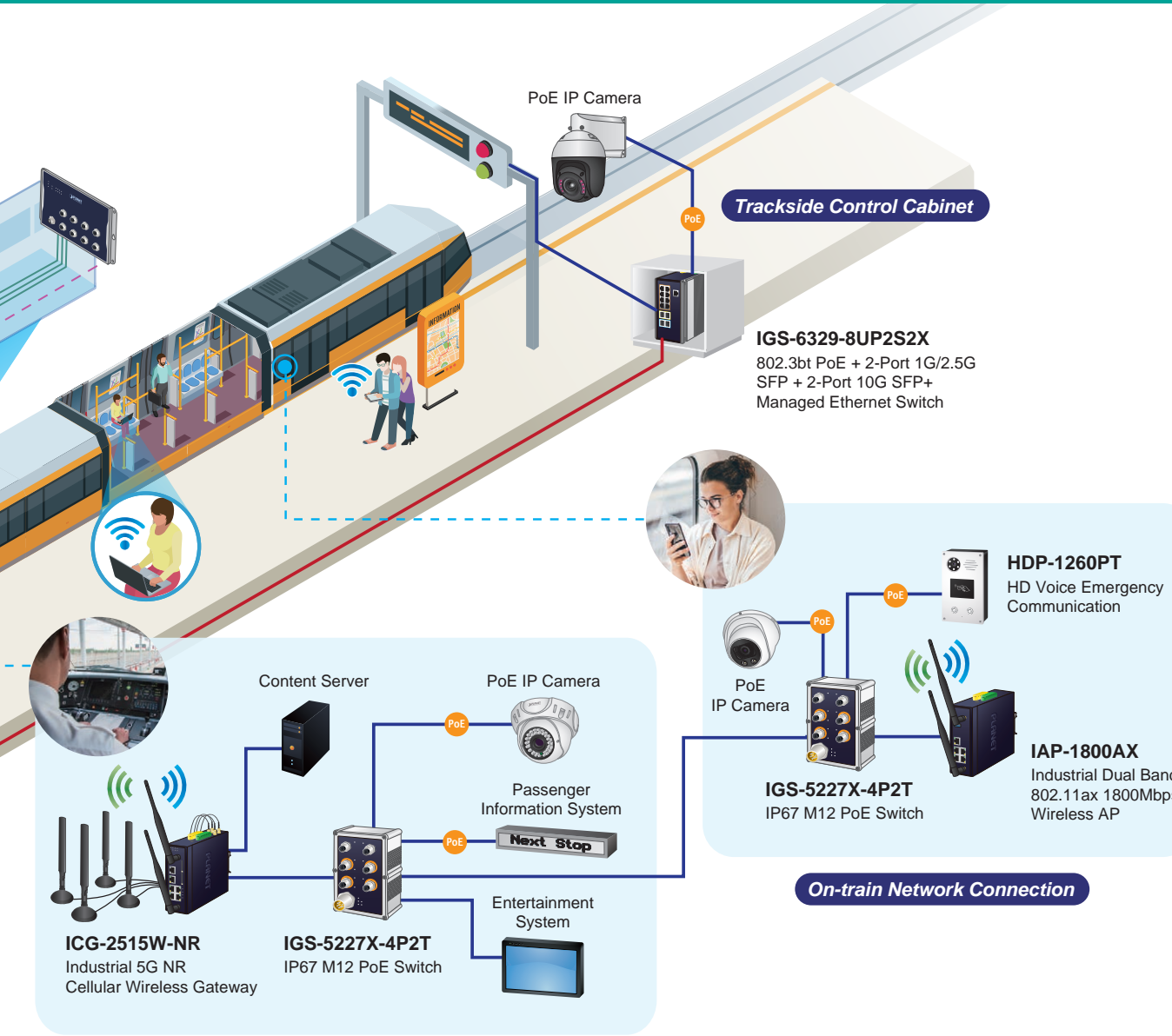
High speed Wi-Fi Coverage Management
WDAP-1800AX

Dual Band 802.11ax 1800Mbps Outdoor Wireless AP



On the Train

Bypass relay and M12 equipment to withstand vibration and shock of rolling stock



Train Operation System



EN50155 Vibration-proof PoE Communication
IGS-5227X-4P2T

Industrial IP67 4-Port 802.3at PoE+ 2-Port 10/100/1000T Managed Ethernet Switch



Trustable Data Transmission in Harsh Environment

WGS-5225-8MT

Industrial L2+ 8-Port M12 Flat-type Managed Switch



Secure and High-speed Wireless Service
IAP-1800AX

Industrial Dual Band 802.11ax 1800Mbps Wireless AP



Emergency and VoIP Communication System
HDP-1260PT

1080p SIP Vandalproof Door Phone with RFID and PoE



Highway

E-mark standards, solar power supply and ERPS ring to ensure quality transmission



Renewable Energy PoE Switch

BSP-360

Industrial Green Power Gigabit Managed Switch/Router with 4-Port 802.3at PoE+



Outdoor Long Distance Wireless Transmission

WDAP-850AC

Dual Band 802.11ac 1200Mbps Wave 2 Outdoor Wireless AP



Vehicle Cellular Wi-Fi Gateway

VCG-1500WG-LTE

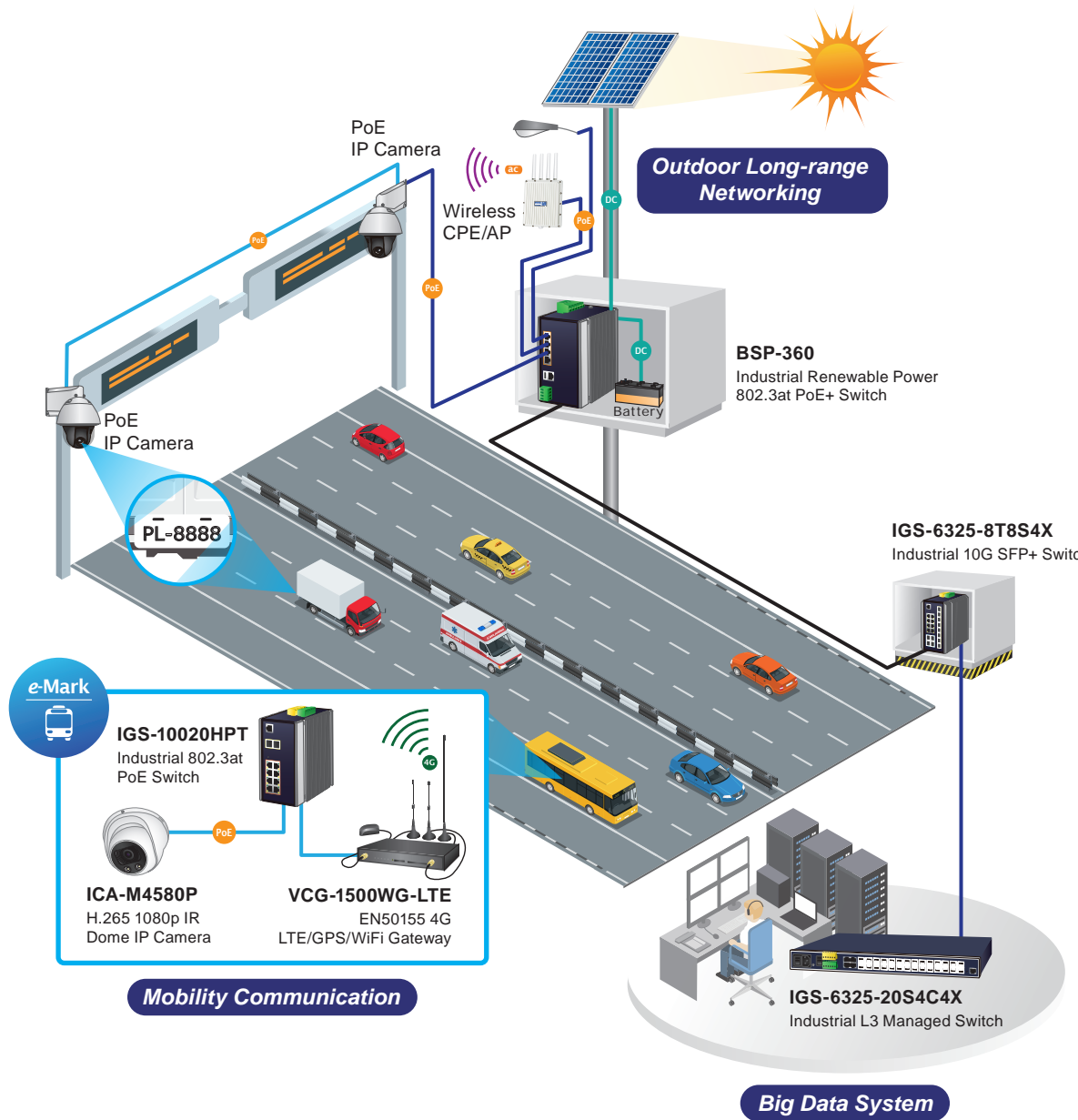
Vehicle 4G LTE Cellular Wireless Gateway with 5-Port 10/100TX



Aggregation 10G Fiber Switch







IGS-6325-8T8S4X




Industrial L3 8-Port 10/100/1000T + 8-Port 1G/2.5G SFP + 4-Port 10G SFP+ Switch



EN50155 Ethernet Switches



EN50155 PoE+ Switches						
L2+ Management				Unmanaged		
Model	IGS-604HPT-M12	IGS-604HPT-RJ	IGS-5226-4P2T	IGS-5227X-4P2T	ISW-808PT-M12A	ISW-808PT-M12
Product Image						
IP Rating	IP67	IP67	IP50	IP67	IP50	IP67
LAN Port	2 x M12, A-coded	2 x water-proof RJ45	2 x water-proof RJ45	2 x M12, X-coded	8 x M12, D-coded	8 x M12, D-coded
PoE LAN Port	4 x M12, A-coded	4 x water-proof RJ45	4 x water-proof RJ45	4 x M12, X-coded	8 x M12, D-coded	8 x M12, D-coded
PoE Budget	144 watts	144 watts	144 watts	144 watts	180 watts	180 watts
Power Input	Dual 48-56V DC	Dual 48-56V DC	Dual 48-56V DC	Dual 12-56V DC	Dual 12-56V DC	Dual 12-56V DC
Operating Temp.	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C
Data Recovery	G.8032 ERPS Ring	G.8032 ERPS Ring	G.8032 ERPS Ring	G.8032 ERPS Ring	G.8032 ERPS Ring	G.8032 ERPS Ring

EN50155 Ethernet Switches			
L2+ Management			Unmanaged
Model	IGS-5227-6MT-X	IGS-5227-6T	ISW-800T-M12
Product Image			
IP Rating	IP67	IP67	IP67
LAN Port	6 x M12, X-coded	6 x water-proof RJ45	8 x M12, D-coded
PoE LAN Port	-	-	-
PoE Budget	-	-	-
Power Input	Dual 12-48V DC	Dual 12-48V DC	Dual 9-48V DC
Operating Temp.	-40~75°C	-40~75°C	-40~75°C
Data Recovery	G.8032 ERPS Ring	G.8032 ERPS Ring	G.8032 ERPS Ring

5G NR / 4G LTE Cellular Gateway



	ICG-2515-NR ICG-2515W-NR	ICG-2515F-NR ICG-2515FW-NR	LCG-300-NR	ICG-2510W-LTE	ICG-2510WG-LTE	VCG-1500WG-LTE
--	-----------------------------	-------------------------------	------------	---------------	----------------	----------------

Product Image



Cellular	5G NR		5G NR	4G LTE	4G LTE	4G LTE
SIM Interface	2 SIM slots with redundancy		1 SIM slot with mini SIM tray	2 SIM slots with redundancy and load balancing		1 SIM slot with mini SIM tray
Copper Interface	1 WAN 10/100/1000BASE-T 4 LAN 10/100/1000BASE-T		3 LAN 10/100/1000BASE-T 1 LAN/WAN 10/100/1000BASE-T 1 WAN 10/100/1000BASE-T	1 WAN 10/100/1000BASE-T 4 LAN 10/100/1000BASE-T	1 WAN 10/100/1000BASE-T 4 LAN 10/100/1000BASE-T	1 WAN 10/100/1000BASE-T 4 LAN 10/100/1000BASE-T
Serial Interface	1 serial port (RS232/RS485)		1 serial port (RS232/RS485)	1 serial port (RS232/RS485)	1 serial port (RS232/RS485)	-
Wi-Fi Interface	802.11ax, 2.4G/ 5G dual band antenna		LoRa antenna EU868MHz, Sub 1G US915MHz, Sub 1G	802.11ac, 2.4G/ 5G dual band antenna		802.11n, 2.4G dual band antenna
Optic Fiber	-	1 1000BASE-X SFP	1 1000BASE-X SFP	-	-	-
GPS Interface	-	-	-	-	●	●
DI/DO Interface	2 DI, 2 DO	2 DI, 2 DO	2 DI, 2 DO	2 DI, 2 DO	2 DI, 2 DO	-
Modbus TCP	●	●	●	●	●	-
Central Management	UNI-NMS	UNI-NMS	UNI-NMS	-	-	-
Operating Temperature	-40~75 degrees C	-40~75 degrees C	-40~75 degrees C	-40~75 degrees C	-35~75 degrees C	-25~65 degrees C
Power Input	9~54V DC	9~54V DC	9~54V DC	9~54V DC	9~36V DC	6~32V DC



PLANET Technology Corporation

11F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C) Tel: +886-2-22199518 Fax: +886-2-22199528 E-mail: sales@planet.com.tw
 PLANET reserves the right to change specifications without prior notice. All brand names and trademarks are property of their respective owners. © PLANET Technology Corporation DM-ITS0123

