

INDUSTRIAL ETHERNET

High Reliability & Connectivity

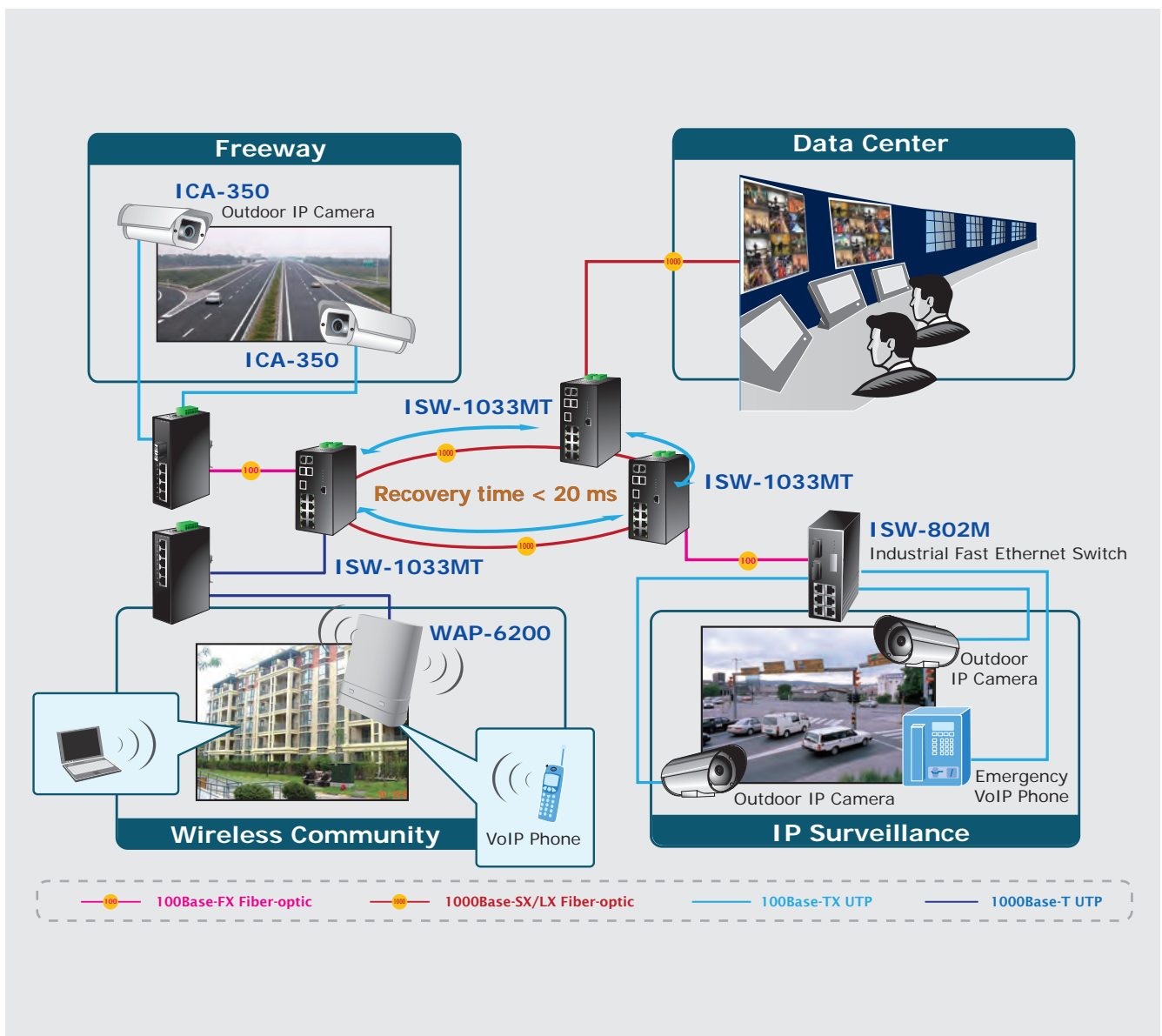
PLANET's Industrial Ethernet Solution offers high reliability and security to ensure continuous industrial operation in harsh environments such as factory floors, outdoor spaces, and at extreme temperatures. The Industrial Ethernet upgrades traditional, proprietary factory-floor networks to a low-cost, high-performance, and scalable architecture.



- > Ring Fast Recovery Managed Industrial Switch
- > Gigabit / Fast Ethernet Industrial Ethernet Switch
- > Gigabit / Fast Ethernet Industrial Media Converters
- > PoE Industrial Ethernet Switch
- > Industrial Serial over Ethernet Converter

Industrial Grade Data and Serial over Ethernet Communication

The PLANET Industrial Ethernet Switches are industrially hardened. Ethernet switch specifically designed to operate reliably in electrically harsh and climatically demanding environments. The Managed Industrial Switch series incorporates Redundant Data Ring technology and redundant power supply system into customers' industrial automation network to enhance system reliability and uptime in the factory harsh environments. It protects customer's industrial network connectivity with switching recovery capability. They provide IP-30 aluminum case and 100Base-FX ports or Gigabit TP/SFP combo interfaces for long distance uplink. The Gigabit fiber optical uplink capability can guarantee the throughput to all nodes hooked into the network and distance can be extended up to above 120 kilometers with SFP module.



Industrial Ethernet

Managed Industrial Ethernet Switch

IGSW-24040T

Industrial 24-Port 10/100/1000Mbps with 4 Shared SFP Managed Gigabit Switch

- 24-Port 10/100/1000Mbps with 4 Shared SFP
- Industrial Managed Ethernet Switch
- IP-30 metal case and fan less design, 19" rack-mountable
- Redundant Power System: Dual 36V~72V DC or 100/240V AC
- -40 to 75 Degree C Operating Temperature range
- IEEE 802.1Q VLAN / MVR
- IEEE 802.1D / 1w / 1s Spanning Tree Protocol for Ethernet Redundancy
- Policy-Based QoS / Bandwidth Control and Storm Control
- Layer 2 / 3 / 4 Access Control List and Port Security
- Web / SNMP v1, v2c, v3 and Telnet remote IP management
- IPv6/IPv4 Dual Stack management



IGSW-24040T

IGS-801M

8-Port 10/100/1000Mbps Managed Industrial Ethernet Switch

- IP-Based WEB / SNMP v1,v2c / SNMP Trap management
- 802.1Q VLAN / Port-Based VLAN and 802.3ad LACP Link Aggregation
- 802.1d STR / 802.1w RSTP for Ethernet redundancy
- QoS / IGMP Snooping / Storm traffic control
- 12 to 48V DC redundant power
- -10 to 60 Degree C operating temperature
- IP-30 Metal case / DIN Rail and Wall Mount Design



IGS-801M

ISW-1022MT

8-Port 10/100Mbps + 2G TP / SFP Managed Industrial Switch

- IP-30 Protection
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.1Q Tagged based VLAN and Port-Based VLAN
- 802.1d/w Spanning Tree Protocol
- QoS Mode: Port Base, Tag Base and Type of Service Priority
- IGMP Snooping v1 and v2 and IGMP Query mode for Multicast Media application
- IP address security management to prevent unauthorized intruder
- WEB-based, Telnet, Console Command Line management
- SNMP v1, v2c and v3 and SNMP Trap
- SMTP email for alarm notification of events
- DIN Rail and Wall Mount Design
- Redundant Power Design
- -40~75 Degrees C wide range operating temperature



ISW-1022MT

ISW-1033MT

7-Port 10/100Mbps + 3G TP / SFP Managed Industrial Switch

- IP-30 Protection
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.1Q Tagged based VLAN and Port-Based VLAN
- 802.1d/w Spanning Tree Protocol
- QoS Mode: Port Base, Tag Base and Type of Service Priority
- IGMP Snooping v1 and v2 and IGMP Query mode for Multicast Media application
- IP address security management to prevent unauthorized intruder
- WEB-based, Telnet, Console Command Line management
- SNMP v1, v2c and v3 and SNMP Trap
- SMTP email for alarm notification of events
- DIN Rail and Wall Mount Design
- Redundant Power Design
- -40~75 Degrees C wide range operating temperature



ISW-1033MT

Model		IGSW-24040T	ISW-1022MPT	ISW-1022MT	ISW-1033MT	IGS-801M
Copper	10/100TX	-	8	8	7	-
	10/100/1000T	24	2	2	3	8
	PoE Port	-	8	-	-	-
Fiber	100FX	Compatible	Compatible	Compatible	Compatible	-
	1000SX/LX	4 / SFP	2 / SFP	2 / SFP	3 / SFP	-
Power Input		36~72V DC Redundant power / 100~240V AC	48V DC Redundant power	12~48V DC Redundant power		
Operating Temperature		-40~75°C*	-40~75°C	-40~75°C	-40~75°C	-10~60°C

Remark: * -20~60°C for AC Power input.

Industrial Power over Ethernet

ISW-1022MPT

8-Port 10/100Mbps + 2G TP/SFP Managed Industrial PoE Switch

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 8 port support 48VDC PoE Power, up to 15.4 watts for each PoE port
- IP-30 Protection
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.1Q Tagged based VLAN and Port-Based VLAN
- 802.1d/w Spanning Tree Protocol
- QoS Mode: Port Base, Tag Base and Type of Service Priority
- IGMP Snooping v1 and v2 and IGMP Query mode for Multicast Media application
- WEB-based, Telnet, Console Command Line management
- SNMP v1, v2c and v3 and SNMP Trap
- SMTP email for alarm notification of events
- DIN Rail and Wall Mount Design
- Redundant Power Design
- -40~75 Degree C



ISW-1022MPT

ISW-504PS / ISW-514PS

5-Port 10/100Mbps Industrial Web Smart Switch with 4-Port PoE Injector

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 4 port support 48V DC PoE Power, up to 15.4 watts for each PoE port
- IP-30 Protection, Rugged metal case
- 24V/48V DC Redundant Power Design
- DIN Rail and Wall Mount Design
- Relay alarm output for power input failure
- Web-based management
- Remote PoE Control / Monitoring



ISW-504PS / ISW-514PS

ISW-504PT / ISW-514PT

5-Port 10/100Mbps Industrial Switch with 4-Port PoE Injector

- IEEE 802.3af Power over Ethernet / End-Span PSE
- 4 port support 48V DC PoE Power, up to 15.4 watts for each PoE port
- IP-30 Protection, Rugged metal case
- 24V/48V DC Redundant Power Design
- DIN Rail and Wall Mount Design
- Relay alarm output for power input failure
- -40~75 Degree C



ISW-504PT / ISW-514PT

IVC-2004PT

4-Port 10/100Base-TX PoE + 1-Port BNC / RJ-11 Industrial Ethernet Extender

- Long reach Ethernet and extend transmission distance:
 - Up to 2.4km (7,874 ft) over coaxial cable
 - Up to 1.4km (4,500 ft) over twisted phone wire
- 4-Port IEEE 802.3af Power over Ethernet Injector / EndSpan PSE
- 15.4Watts full power inject by each PoE Port
- -40~75 Degree C wire range operating temperature
- 48V DC Redundant Power Design
- IP-30 metal case, DIN-Rail & wall mountable hardware design
- One box design, Master/ Slave Selectable via DIP Switch



IVC-2004PT

Model		ISW-1022MPT	ISW-504PS	ISW-514PS	ISW-504PT	ISW-514PT	IVC-2004PT
Copper	10/100TX	8	5	4	5	4	4
	10/100/1000T	2	-	-	-	-	-
	PoE Port	8	4	4	4	4	4
Fiber	100FX	Compatible	-	1 SC/2km or 15km	-	1 SC/2km or 15km	-
	1000SX/LX	2/SFP	-	-	-	-	-
Power	Input	48V DC	24V/48V DC	24V/48V DC	24V/48V DC	24V/48V DC	48V DC
Operating Temperature		-40~75 Degree C	-10~60 Degree C	-10~60 Degree C	-40~75 Degree C	-40~75 Degree C	-40~75 Degree C

Industrial Ethernet

Unmanaged Industrial Ethernet Switch

ISW-501T / ISW-801T

5 / 8-Port 10/100Mbps Industrial Switch

- Rugged Metal case, IP-30 protection
- 12V~48V DC Wide-Rang Redundant Power Design
- Power Polarity reverse protection
- DIN-Rail and 3-way wall mount design
- Relay alarm output for power input failure
- Auto MDI/MDI-X on TP port
- Automatic Address Learning and Aging
- -40~75 Degree C operating temperature



ISW-501T / ISW-801T

ISW-511 / ISW-511T / ISW-621 / ISW-621T

4-Port 10/100Mbps + 1/2 100Base-FX Industrial Switch

- IP-30 protection, Rugged metal case
- Slim type, compact housing design , space saving and easy installation
- 12V~48V DC Wide-Rang Redundant Power Design
- Power Polarity reverse protection
- DIN-Rail and wall mount design
- Relay alarm output for power input failure
- Auto MDI/MDI-X on TP port
- 100Base-FX Fiber link capability for long distance switch deployment
- -40~75 Degree C operating temperature (T Series)



ISW-621

Model	ISW-501T	ISW-801T	ISW-511	ISW-511T	ISW-621	ISW-621T
10/100TX	5	8	4	4	4	4
100FX	-	-	1/SC/2km	1/SC/2km	2/SC/2km	2/SC/2km
Power Input	12~48V DC Redundancy power					
Operating Temperature	-40~75°C	-40~75°C	-10~60°C	-40~75°C	-10~60°C	-40~75°C

IGS-802T

8-Port 10/100/1000Mbps with 2 SFP slots Industrial Ethernet Switch

- 2 SFP slots support 1000Base-SX/LX/ZX transceivers
- Supports jumbo frame transmission up to 9KB
- -40~75 Degrees C wide range operating temperature
- 12V~48V DC Redundant Power Design
- IP-30 metal case, DIN-Rail and Wall-mountable hardware design
- Relay alarm for power breakdown
- Supports 6KV DC Ethernet ESD protection and supports 6KV DC EFT protection for power line



IGS-802T

IGS-501 / IGS-501T / IGS-801 / IGS-801T

5/8-Port 10/100/1000Mbps Industrial Ethernet Switch

- IP-30 protection, Rugged metal case
- Slim type, compact housing design , space saving and easy installation
- 12V~48V DC Wide-Rang Redundant Power Design
- Power Polarity reverse protection
- DIN-Rail and wall mount design
- Relay alarm output for power input failure
- 10G / 16G switch fabric
- Auto MDI/MDI-X on TP port
- Automatic Address Learning & Aging
- -40~75 Degrees C Wide operating temperature (IGS-501T/IGS-801T)



IGS-801T

Model		IGS-501	IGS-501T	IGS-801	IGS-801T	IGS-802T
Copper	10/100TX	-	-	-	-	-
	10/100/1000T	5	5	8	8	8
Fiber	1000SX/LX	-	-	-	-	2 / SFP
Power Input		12~48V DC Redundancy power				
Operating Temperature		-10~60°C	-40~75°C	-10~60°C	-40~75°C	-40~75°C

Industrial Media Converter

IFT-802T / IFT-802TS15 / IFT-805AT

Industrial Fiber Converter

- 12 to 48V DC power inputs
- Auto MDI/MDI-X on TP port
- Relay alarm output for power failure
- DIN-Rail or wall mountable
- IP-30 case
- -40 to 75 Degree C operating temperature



IFT-802T

IGT-902 / IGT-902S / IGT-905A

IGT-902T / IGT-902TS

Industrial Managed Gigabit Ethernet Media Converter

- Built-in IP-based Web interface and SNMP v1/v2c for remote management
- TS-1000 OAM/IEEE 802.3ah OAM/ Loop Back Test
- 12V to 48V DC, redundant power with polarity reverse protec function
- -30 to 75 Degree C (IGT-902T / IGT-902TS) operating temperature
- IP-30metal case / DIN-Rail and Wall-mountable design



IGT-905A

Model		IFT-802T	IFT-802TS15	IFT-805AT	IGT-902	IGT-902S	IGT-905A
Copper	10/100TX	1	1		-	-	-
	10/100/1000T	-	-		1	1	1
Fiber	100FX	SC / 2km	SC / 15km		-	-	-
	1000SX/LX	-	-		1 x SC / 550m	1 x SC / 10km	1 x SFP
Power Input		12~48V DC Redundancy power					
Operating Temperature		-40~75°C			-10~60°C *		

Remark: * IGT-902T / IGT-902TS supports -30~75°C.

ICS-2100 / ICS-2102 / ICS-2102S15

Industrial RS-232/ RS-422/ RS-485 over Ethernet Media Converter

- Cost effective for RS-232/ RS-422/ RS-485 to Ethernet application
- Standard TCP/IP interface and versatile operation modes
- Built-in IP-Based Web interface for remote management
- IP-30 Metal case protection
- 12 to 48V DC, Redundant power
- -10 to 60 Degree C operating temperature



ICS-2100

IVC-2002

Industrial Ethernet over VDSL2 Converter

- Cost effective VDSL2 Master/Slave bridge solution
- One box design, Master/Slave selectable via DIP Switch
- IP-30 Metal case / protection
- DIN Rail / Wall Mount design
- 12 to 48V DC, Redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- -40 to 75 Degree C operating temperature



IVC-2002

Model		ICS-2100	ICS-2102	ICS-2102S15
Copper	10/100TX	1	-	-
Fiber	100FX	-	SC / 2km	SC / 15km
RS-232		1 x Db9 male		
RS-422/485		4 Pin Terminal Block		
Power Input		12~48V DC Redundancy power		
Operating Temperature		-10~60°C		

Model		IVC-2002
Copper		4 x 10/100TX
Extender Port		Coaxial / RJ-11
Power Input		12~48V DC Redundancy power
Operating Temperature		-40~75°C