

Industrial 10/100/1000T to 2 100/1000X SFP Media Converter

IGT-1205AT



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Presentation Outlines

- ◆ **Product Overview**
- ◆ **Product Benefits**
- ◆ **Product Features**
- ◆ **Applications**

IGT-1205AT



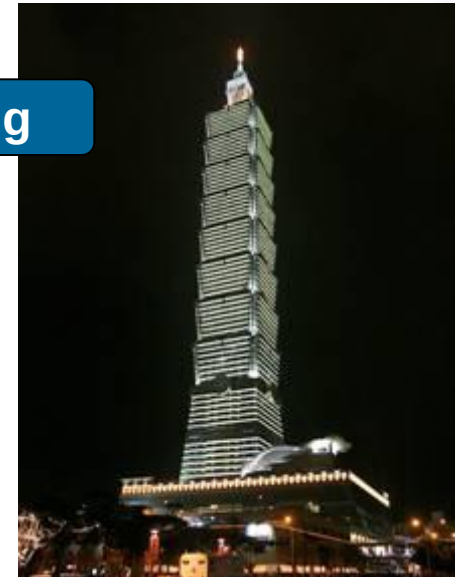
Product Overview

◆ Environments of Industrial Products

Factory



Building



Transportation



Product Overview

- ◆ **Hardened Environments, Wide Operating Temperature**

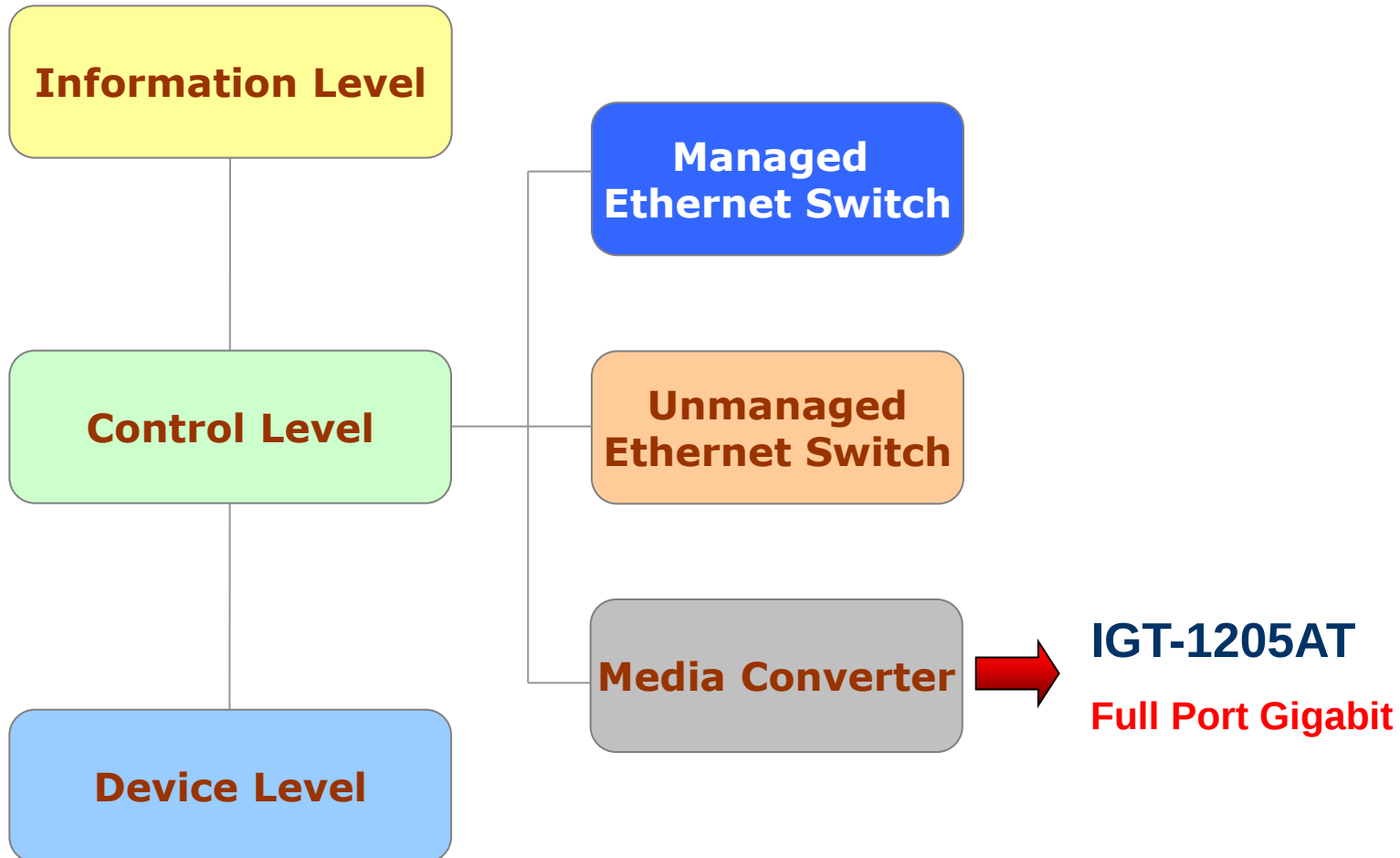


IGT-1205AT



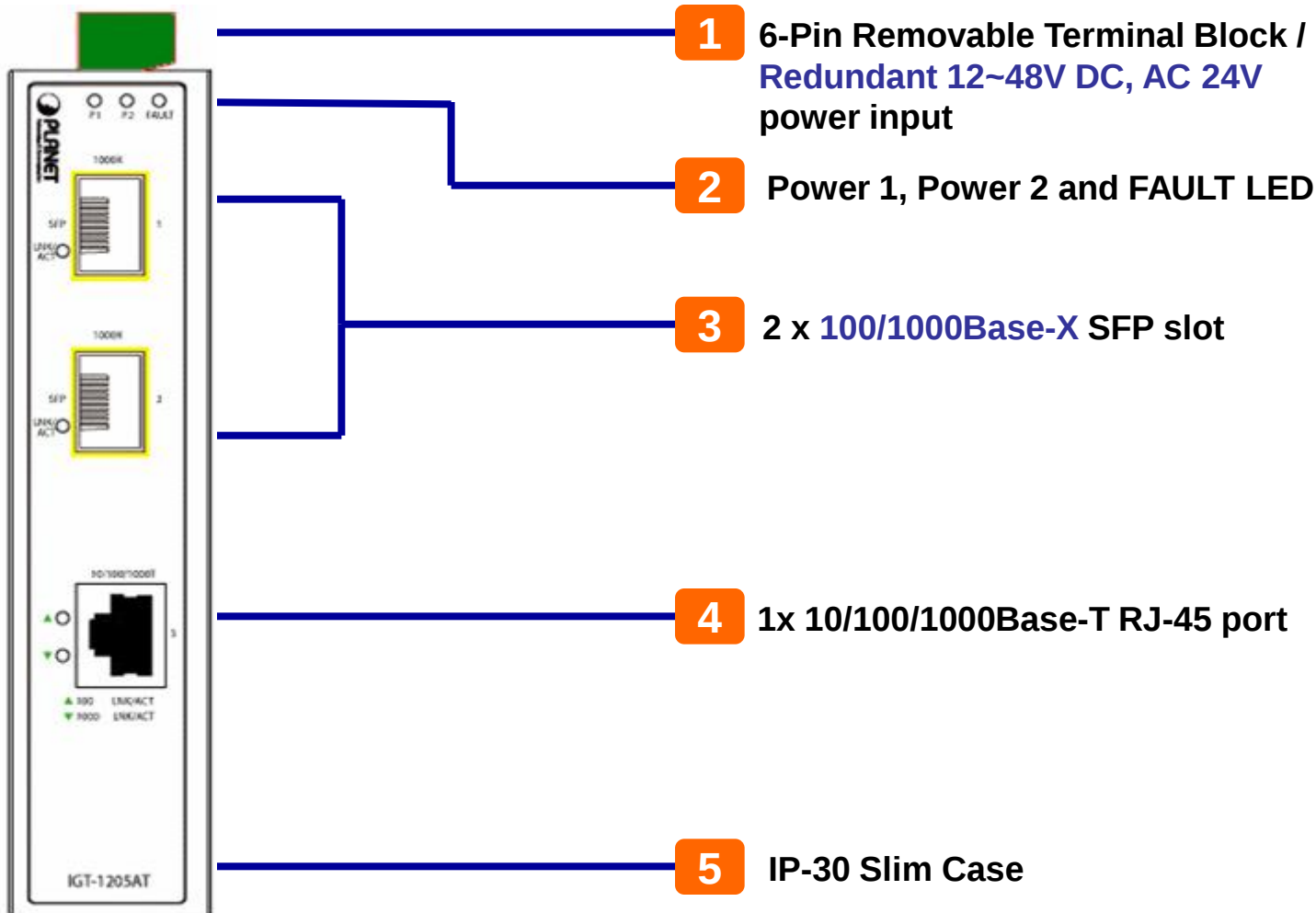
Product Overview

◆ PLANET Industrial Product Classification



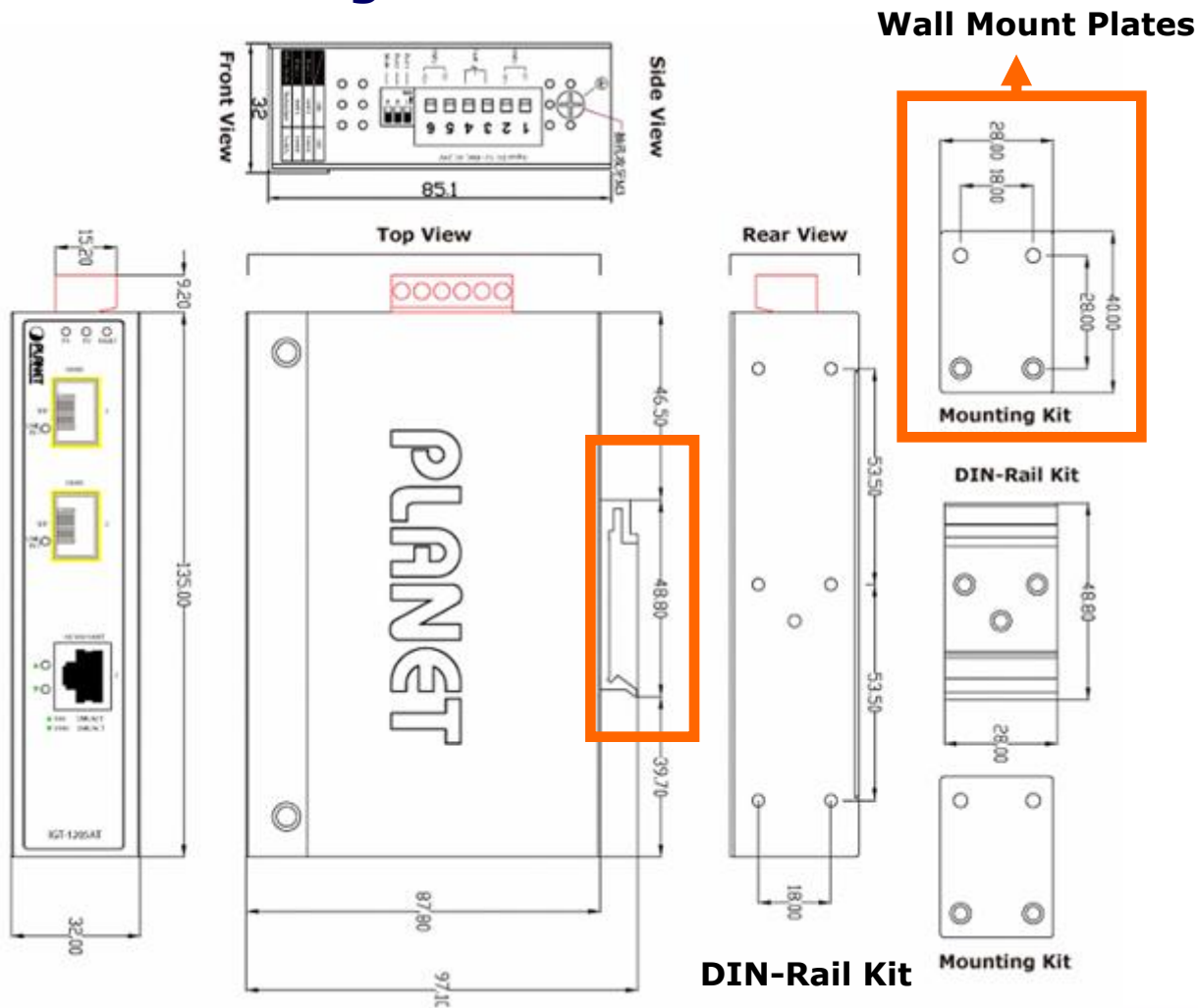
Product Overview

◆ Front Panel of IGT-1205AT



Product Overview

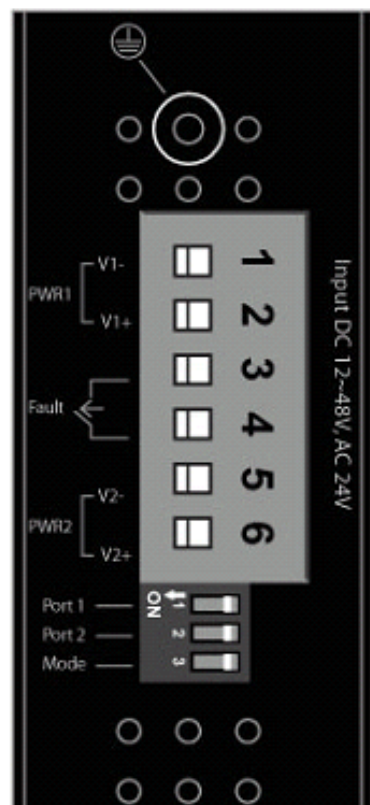
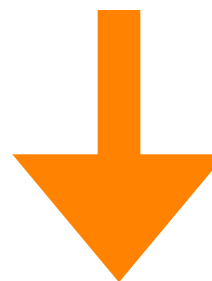
◆ Mechanical Drawing



Product Overview

◆ DIP Switch Setting

The 3 DIP switch settings and descriptions:



	ON	OFF
Port 1 (DIP 1)	100FX	1000X
Port 2 (DIP 2)	100FX	1000X
Fiber Redundant (DIP 3)	Fiber Redundant	Switch

	ON	OFF
Port 1	100FX	1000X
Port 2	100FX	1000X
Fiber Mode	Redundant	Switch

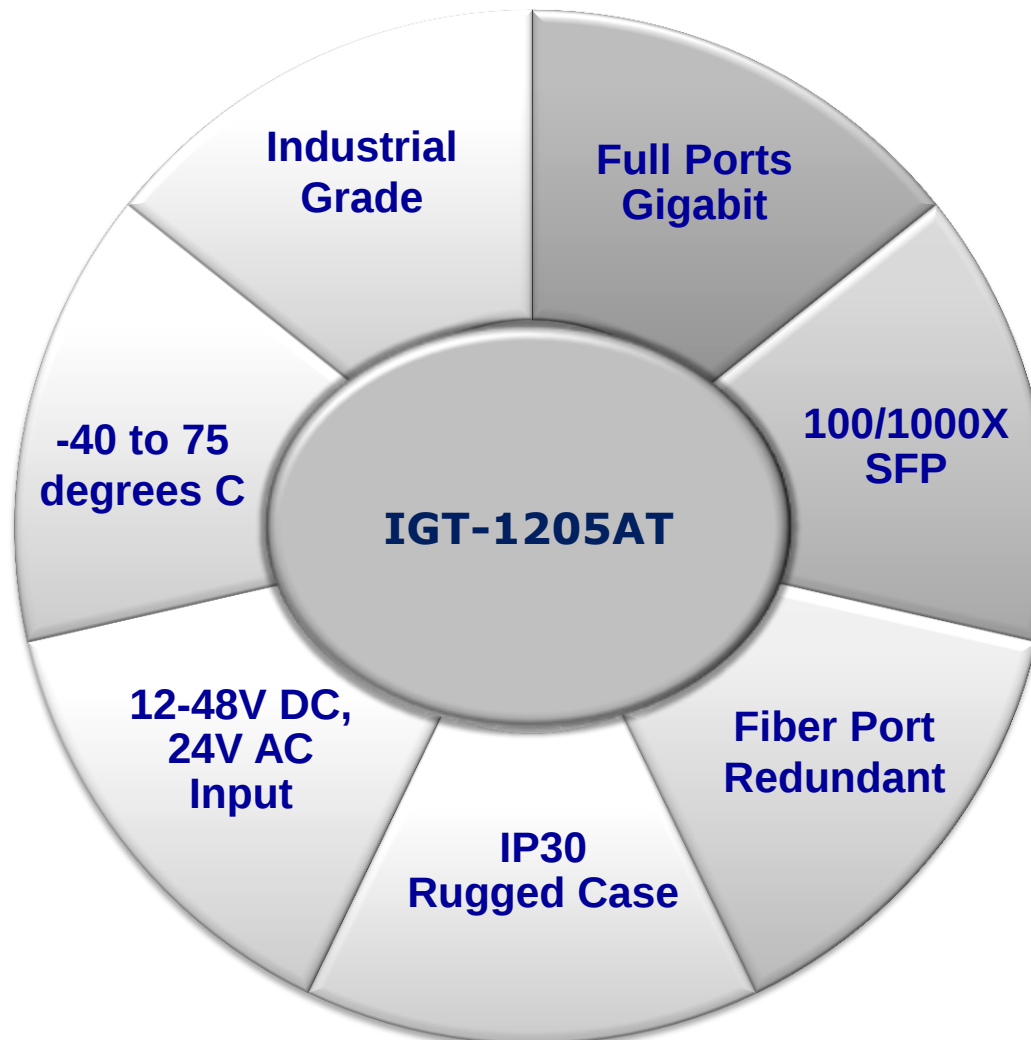
Product Benefits

◆ Industrial Conformance

- ✓ **12~48V DC, AC 24V**, redundant power with polarity reverse protect function
- ✓ Connective removable terminal block for master and slave power
- ✓ **-40 to 75** degrees C operating temperature
- ✓ IP-30 metal case
- ✓ EFT protection 6KV DC for power line
- ✓ 6KV DC Ethernet ESD protection
- ✓ Relay alarm for power failure
- ✓ DIN Rail and Wall mount Design for meeting installation demand in Heavy Industrial environments
- ✓ Stability testing with
 - **IEC60068-2-32 (Free fall)**
 - **IEC60068-2-27 (Shock)**
 - **IEC60068-2-6 (Vibration)**



Product Key Features



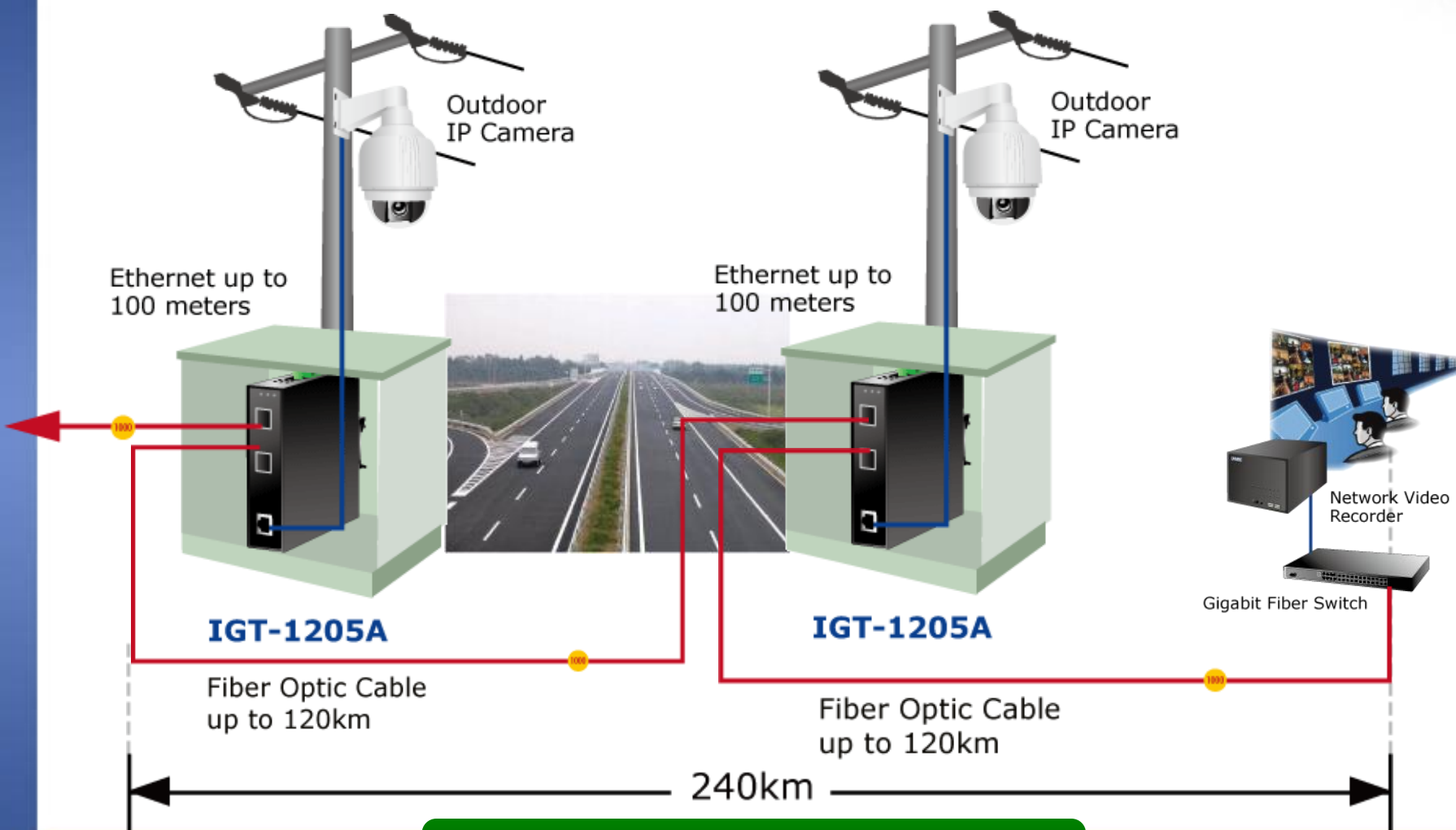
Product Features

◆ Hardware

- ✓ 1-Port Gigabit RJ-45 Interface, auto MDI / MDIX
- ✓ 2 SFP slots, flexible for Fiber-Optic network extension
 - SFP type, plug and play
 - Supports 1000Base-X and 100Base-FX transceiver via DIP switch configured
 - **1000Base-SX/LX** :Maximum 120 kilometres
 - **100Base-FX** compatible, up to 60 kilometres
- ✓ **9K bytes** Jumbo Frame
- ✓ **6Gbps** Switch Fabric
- ✓ Advanced **Fiber Redundancy** Function
 - When Primary-Port is active at a time, the Backup-Port is blocked.
 - When Primary-Port link failure occurs, the traffic will swap to Backup-Port automatically.
 - When Primary-Port is back to link-up, the traffic will swap from Backup-Port to Primary-Port.
- ✓ IP30 Metal Case Protection
- ✓ DIN-Rail and Wall-Mount Design

Product Features – Fiber Optic Link

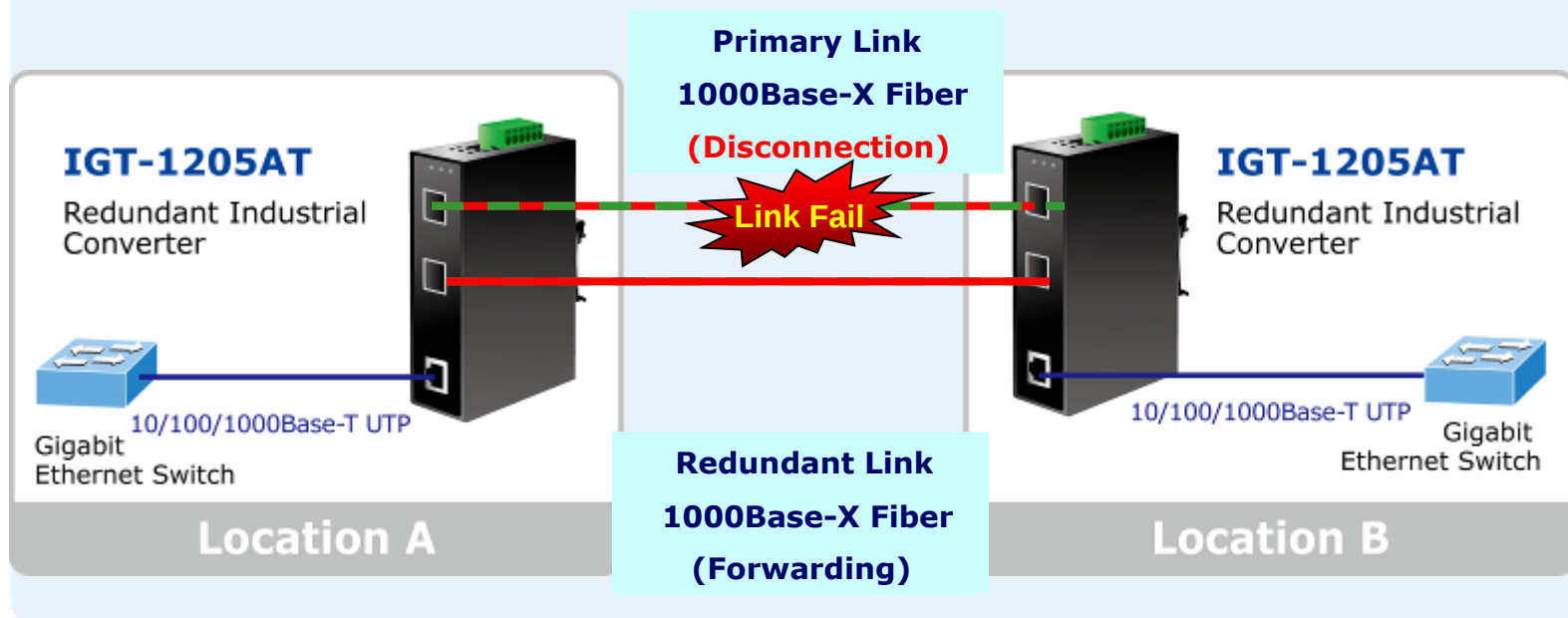
- ◆ **Fiber-Optical Link Capability Extends the Range of Network Deployment**



Distance extends up to **240km**

Product Features – Fiber Redundancy

Site to Site Fiber Link Redundancy – ISP, Bank and Enterprise

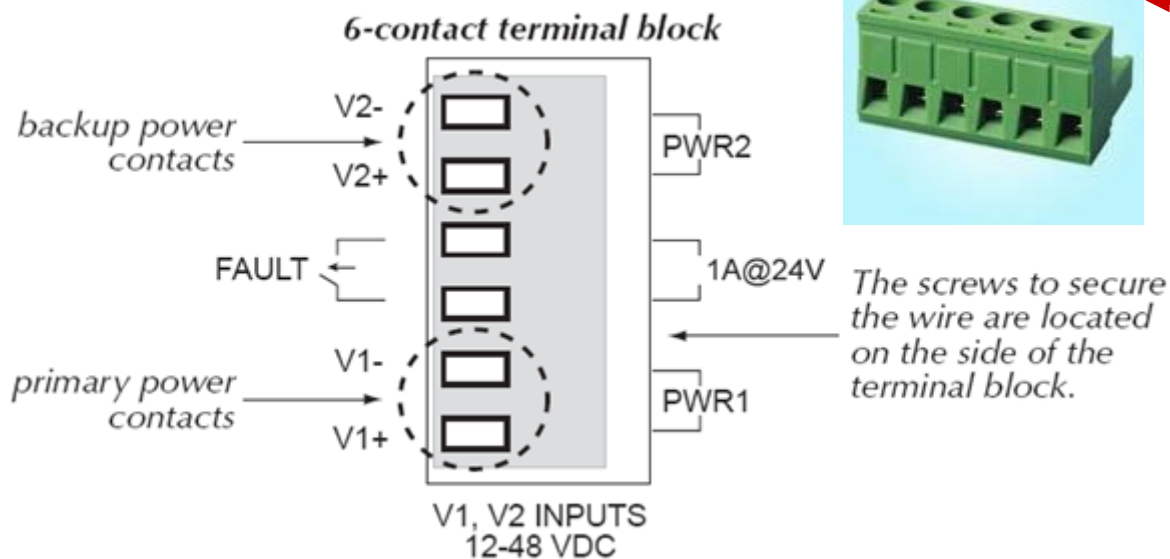


Rapid Fiber Redundancy

Product Features

◆ Wide-ranging redundant power design

- ✓ PWR1 & PWR2 12~48V DC redundant power input
- ✓ 1A@24V Relay alarm for power down and port down
- ✓ Power polarity reverse protect
- ✓ Connective removable terminal block for primary and backup power



Product Features

◆ Real-Time Fault Relay Alarm





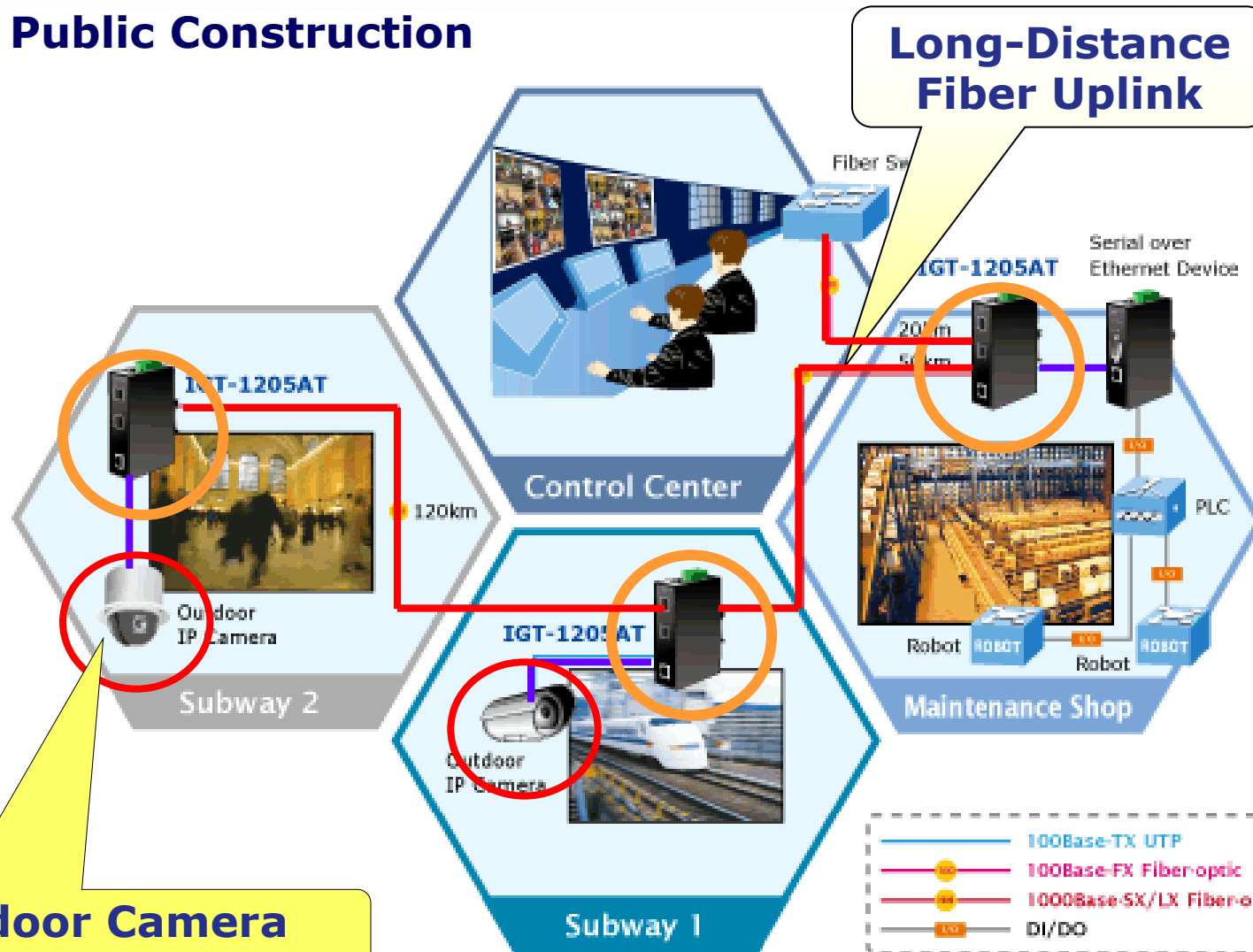
Applications

◆ Hardened Environment Application

- ✓ The IGT-1205AT industrial Gigabit Media Converter offers full port Gigabit speed. It provides very high reliability and security features to make sure the continuous operation in harsh environments such as control cabinet of transportation, factory, outdoors and places where extreme low or high temperatures can be experienced.
- ✓ Moreover, the IGT-1205AT is also compatible with **100Mbps** and **1000Mbps** SFP transceivers to provide a strong, stable and long-distance connection and flexible industrial networking deployment.

Applications

◆ Public Construction



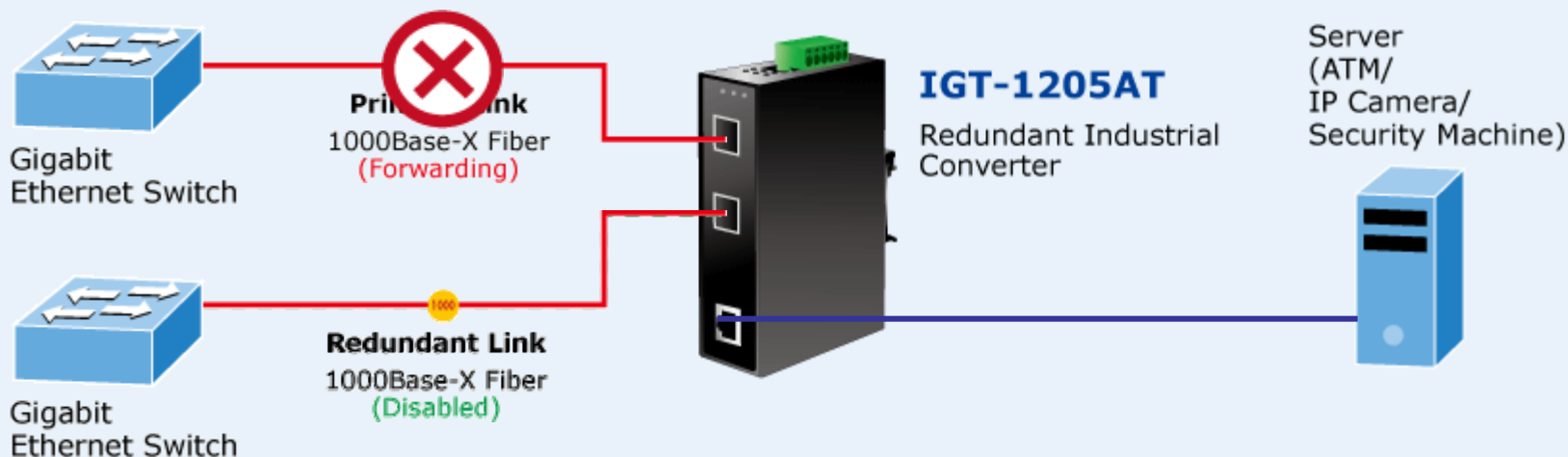
Outdoor Camera

Applications

◆ Redundancy Applications

- ✓ The IGT-1205AT provides rapid **fiber redundancy** of link for highly critical Ethernet applications.
- ✓ The redundant-mode supports **auto-recover** function. If the destination port of a packet is link-down, it forwards the packet to the other port of the backup pair.

Link Path Redundant to Critical Network Service



Rapid Fiber Redundancy

Appendix Sales Target

◆ Target Markets

- ✓ Tender Market (Public construction)
- ✓ System Integrator
- ✓ IE Distributor
- ✓ Factory
- ✓ Transportation
- ✓ Hospital / Bank

◆ Profitable Products

- ✓ The following **Industrial Switches/Media Converters** are potential to all customers :
 - ISW-621TF, IGS-802T, IFT-80xT series, IGT-90xT Series
- ✓ Upgrade Industrial Fast Ethernet to Industrial Gigabit Ethernet
- ✓ Need stable Gigabit operating performance under Industrial environments
- ✓ Who needs flexible **100/1000X fiber optic link** capability for long-distance deployment in harsh environments?

Appendix

◆ Available Gigabit Fiber Optic SFP Modules:

- ✓ MGB-GT **SFP-Port 1000Base-T Module-100m**
- ✓ MGB-SX **SFP-Port 1000Base-SX mini-GBIC module-550m**
- ✓ MGB-LX **SFP-Port 1000Base-LX mini-GBIC module-10km**
- ✓ 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-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)**



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Appendix



◆ Available Fast Ethernet Fiber Optic SFP Modules:

- ✓ **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-FA20** SFP-Port 100Base-BX Transceiver (WDM,TX:1310nm) -20km
- ✓ **MFB-FB20** SFP-Port 100Base-BX Transceiver (WDM,TX:1550nm) -20km

Appendix

◆ Available DIN-Rail Power Supply:

- ✓ **PWR-40-24** **40W** 24V DC Industrial DIN Rail Power Supply
- ✓ **PWR-60-24** **60W** 24V DC Industrial DIN Rail Power Supply
- ✓ **PWR-75-24** **75W** 24V DC Industrial DIN Rail Power Supply
- ✓ **PWR-120-48** **120W** 48V DC Industrial DIN Rail Power Supply
- ✓ **PWR-240-48** **240W** 48V DC Industrial DIN Rail Power Supply





ACTIVATING IP POWER