

## Industrial 4-Port 10/100/1000T + 2-Port 100/1000X SFP Ethernet Switch

**IGS-620TF**



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# Presentation Outlines

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



**IGS-620TF**

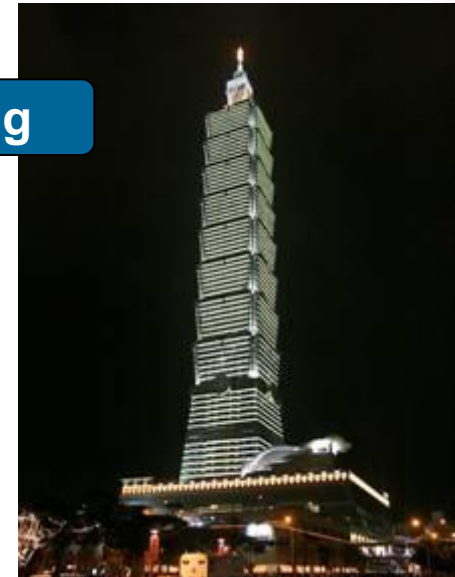
# Product Overview

## ◆ Environments of Industrial Products

Factory



Building



Transportation



## Product Overview

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

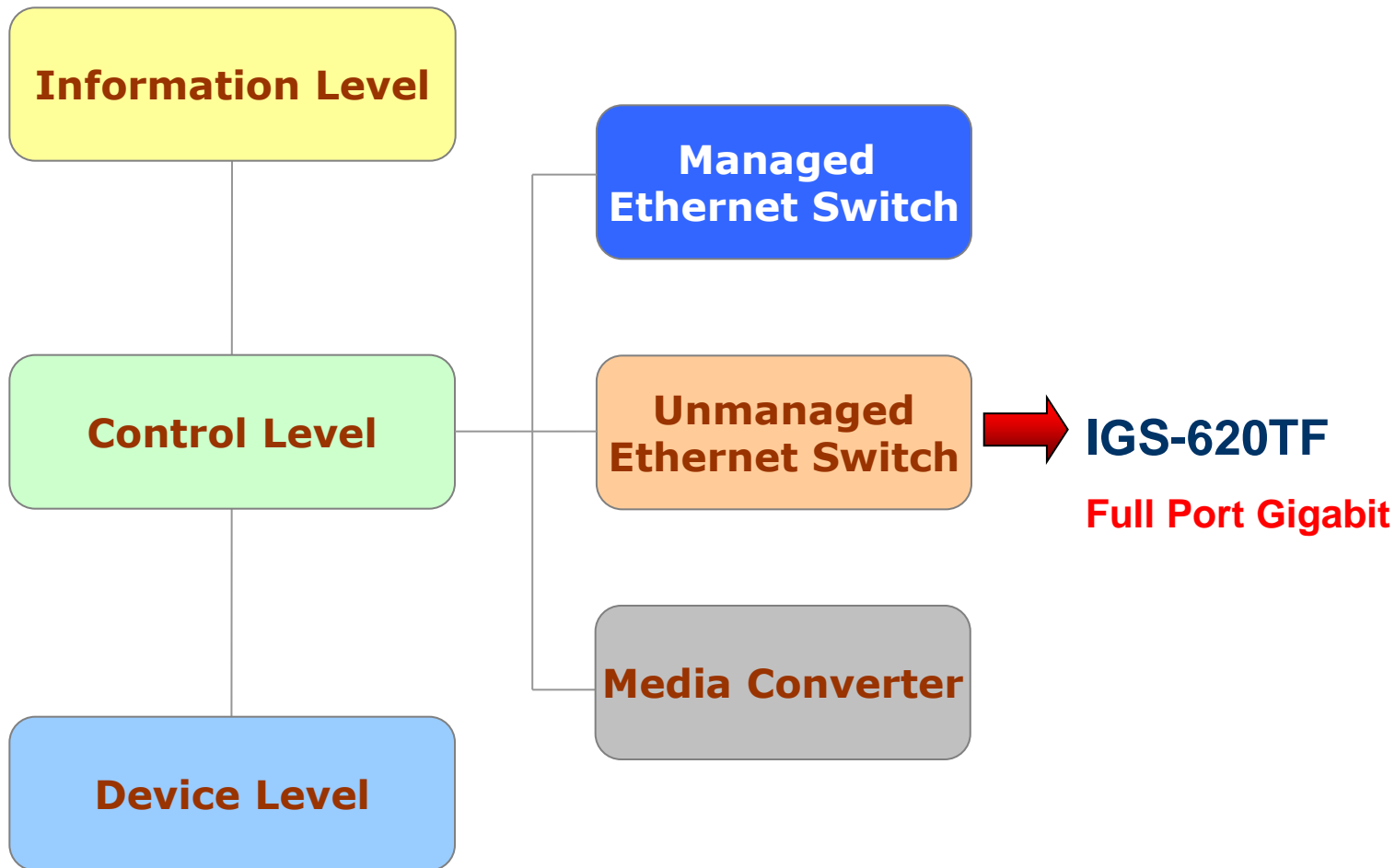


**IGS-620TF**



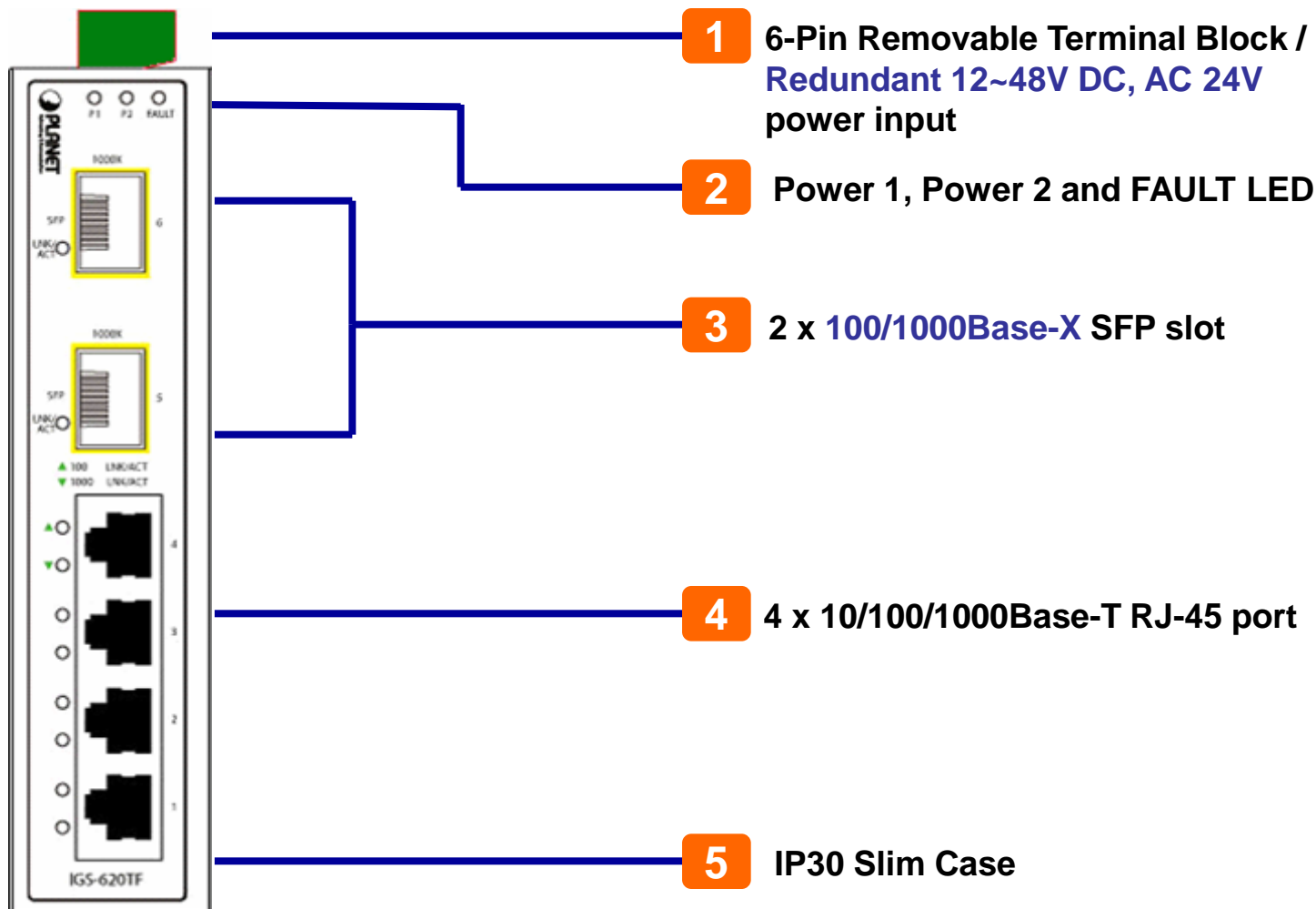
# Product Overview

## ◆ PLANET Industrial Product Classification



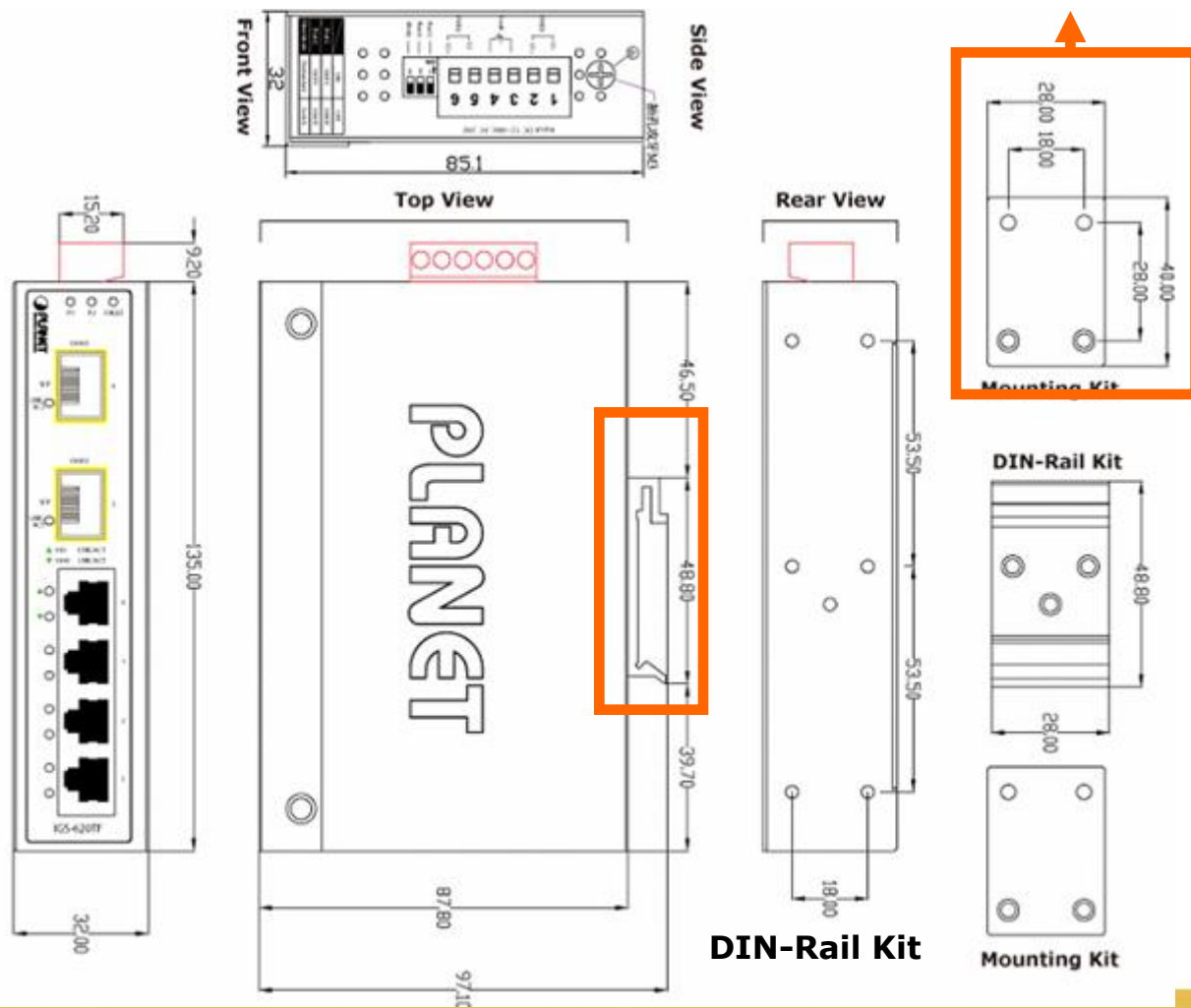
# Product Overview

## ◆ Front Panel of IGS-620TF



# Product Overview

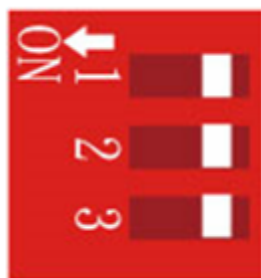
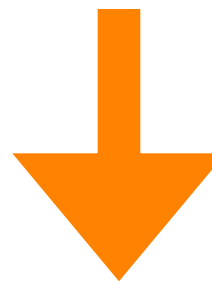
## ◆ Mechanical Drawing



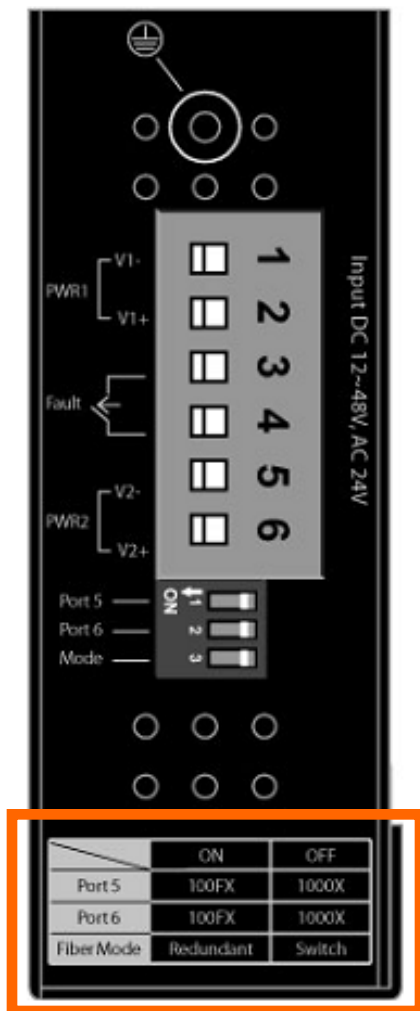
# Product Overview

## ◆ DIP Switch Setting

The 3 DIP switch settings and descriptions:



	ON	OFF
Port 5 (DIP 1)	100FX	1000X
Port 6 (DIP 2)	100FX	1000X
Fiber Redundant (DIP 3)	Fiber Redundant	Switch





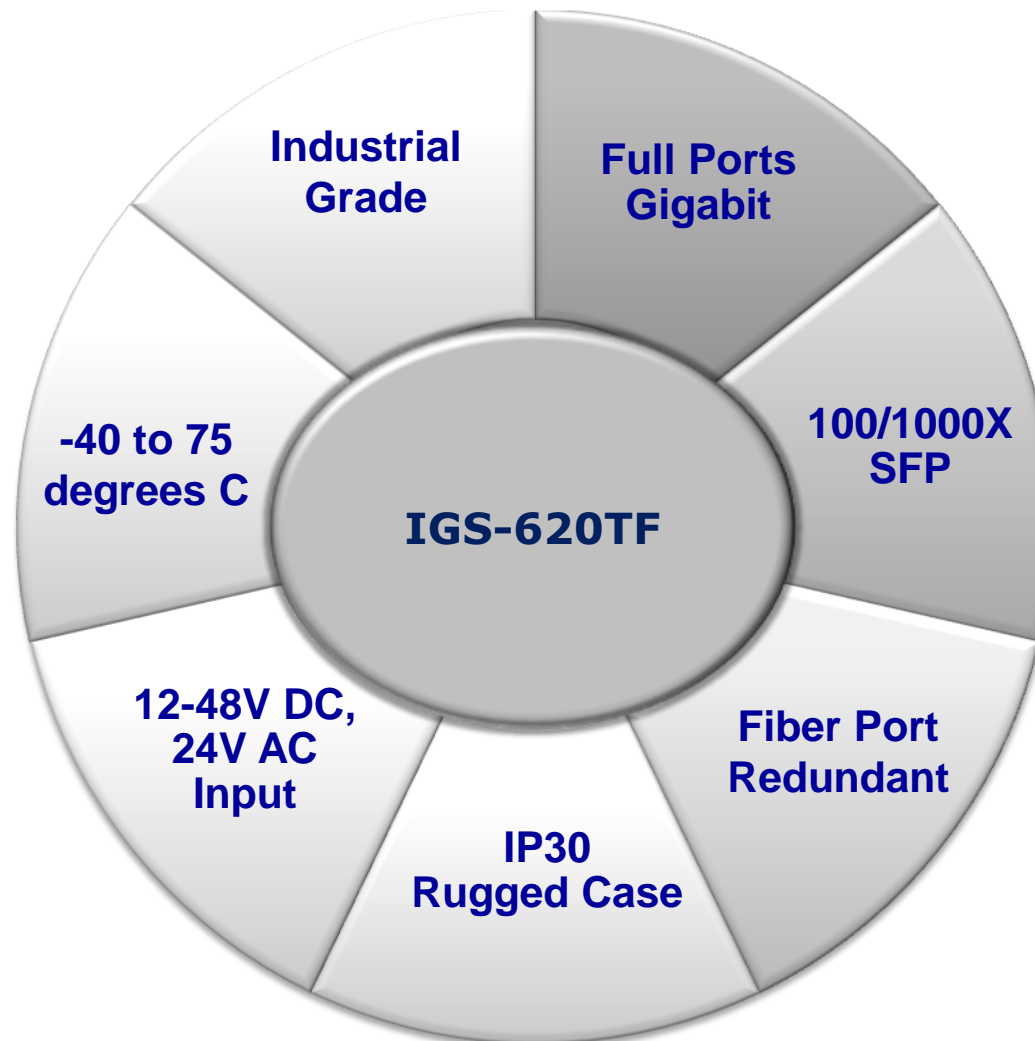
# Product Benefits

## ◆ 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

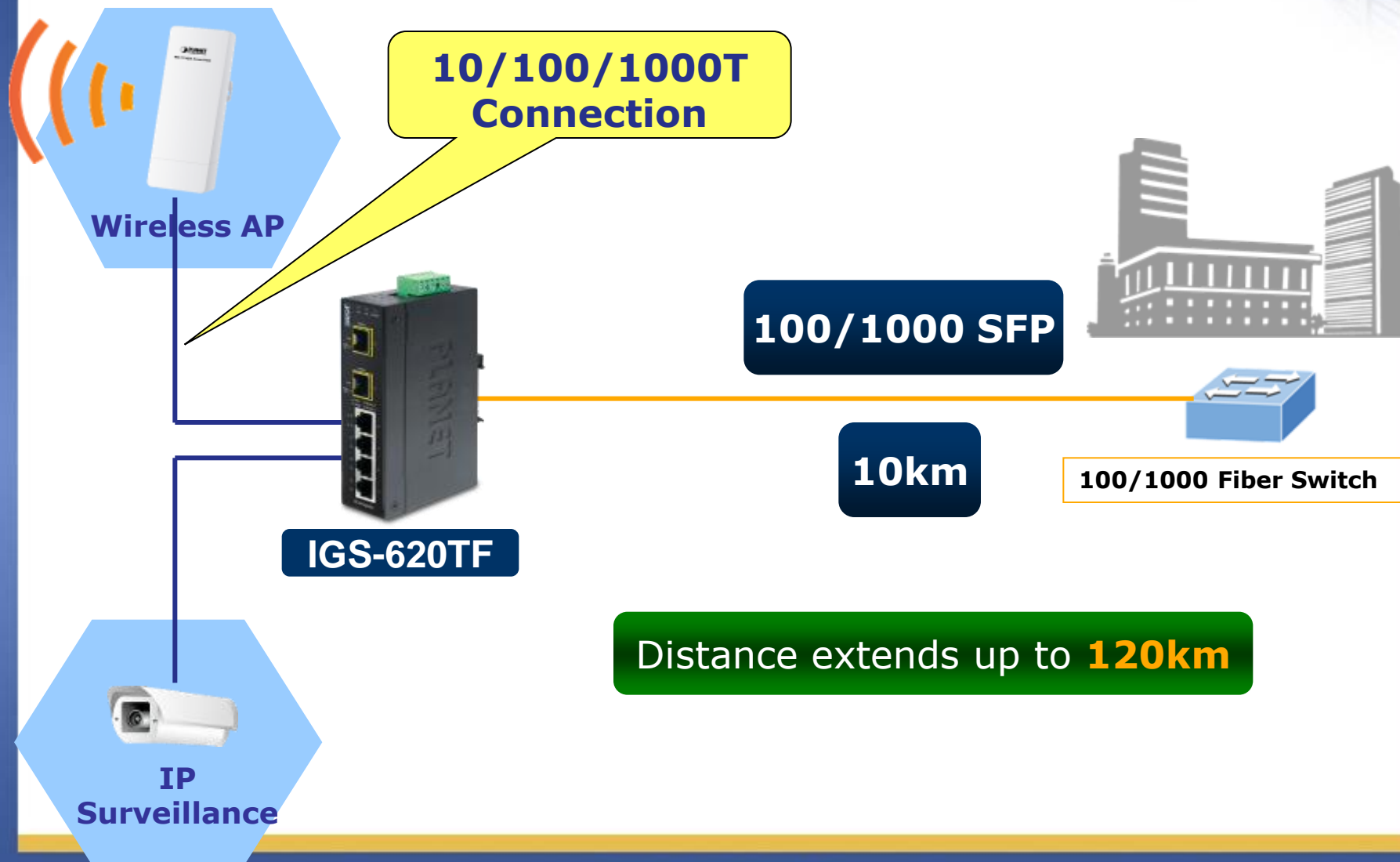


# Product Features

## ◆ Hardware

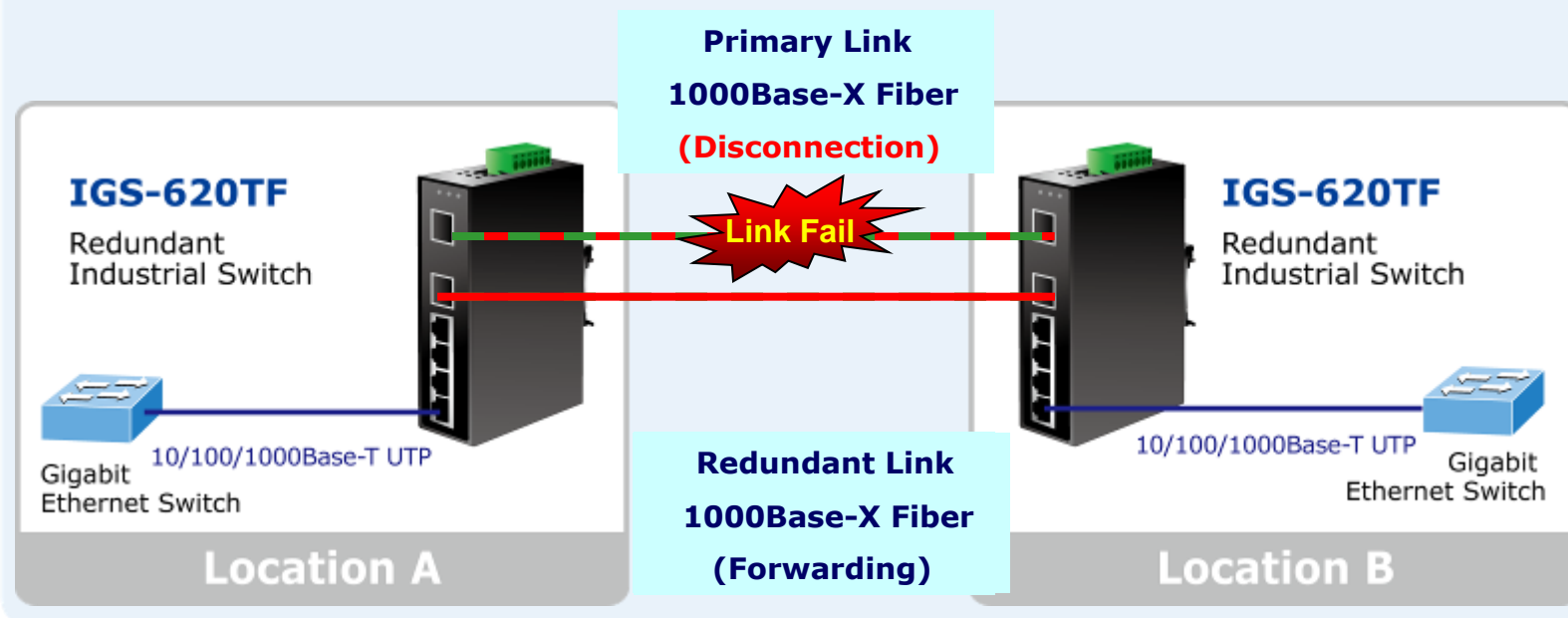
- ✓ 4-Port Gigabit RJ-45 Interfaces, auto MDI / MDIX
- ✓ 2 SFP slots, flexible for Fiber-Optic network extension
  - SFP type, plug and play
  - Supports 1000Base-X and 100Base-FX transceiver via DIP switch configured
    - **1000Base-SX/LX** :Maximum 120 kilometres
    - **100Base-FX** compatible, up to 60 kilometres
- ✓ **9K bytes** Jumbo Frame
- ✓ **1K bytes** MAC address table size
- ✓ **12Gbps** 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



## Product Features – Fiber Redundancy

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



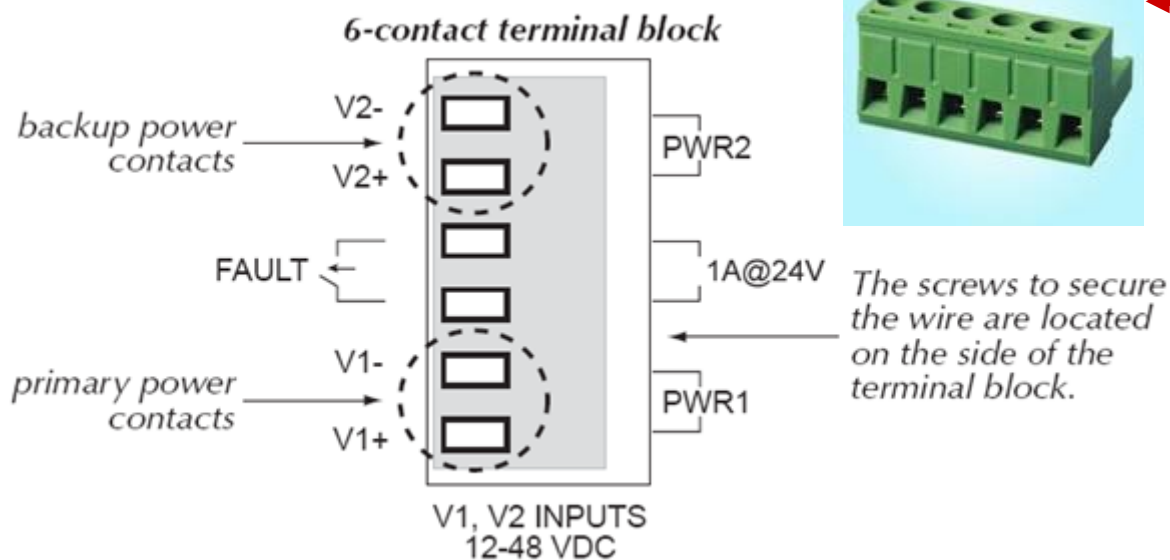
**Rapid Fiber Redundancy**



# Product Features

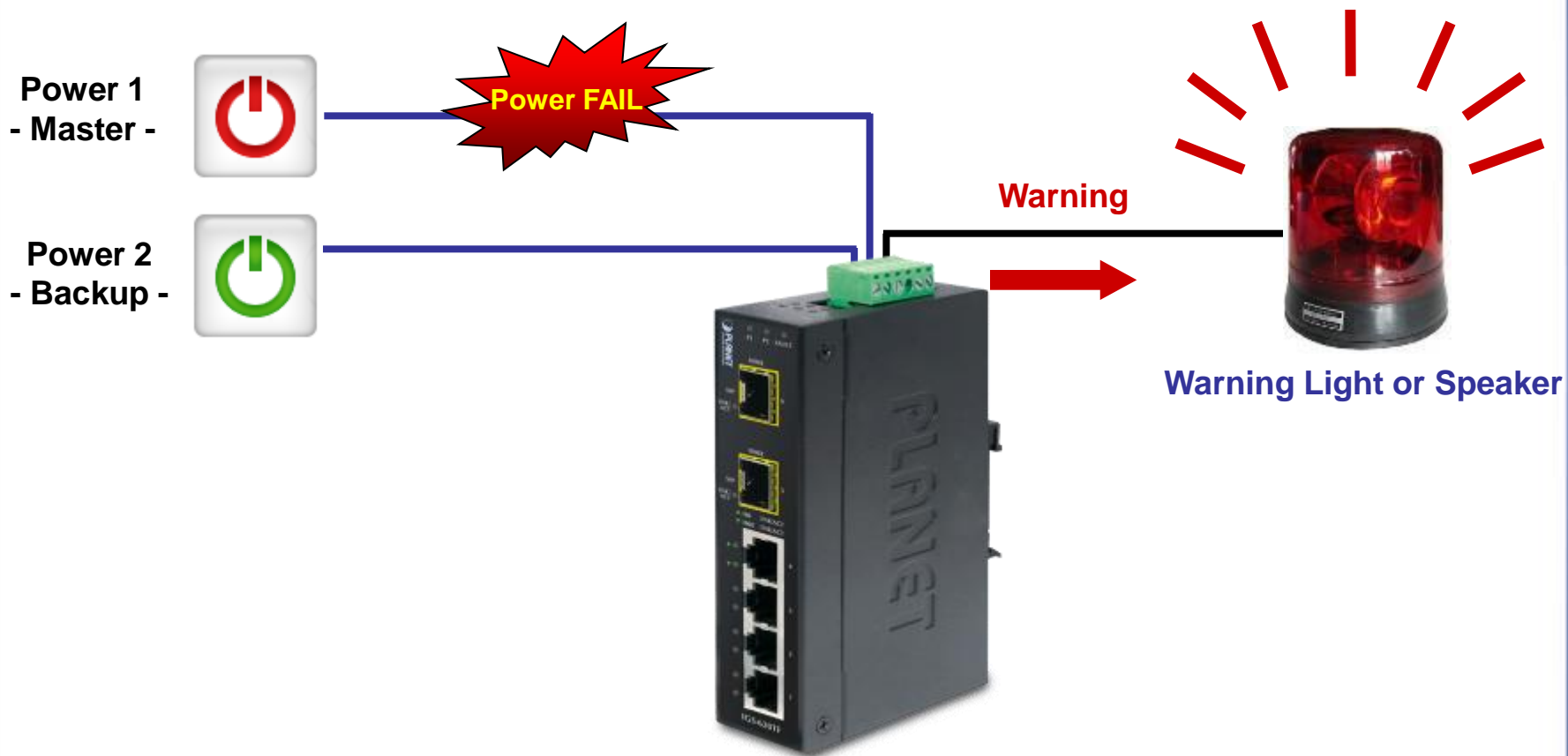
## ◆ Wide-ranging redundant power design

- ✓ 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





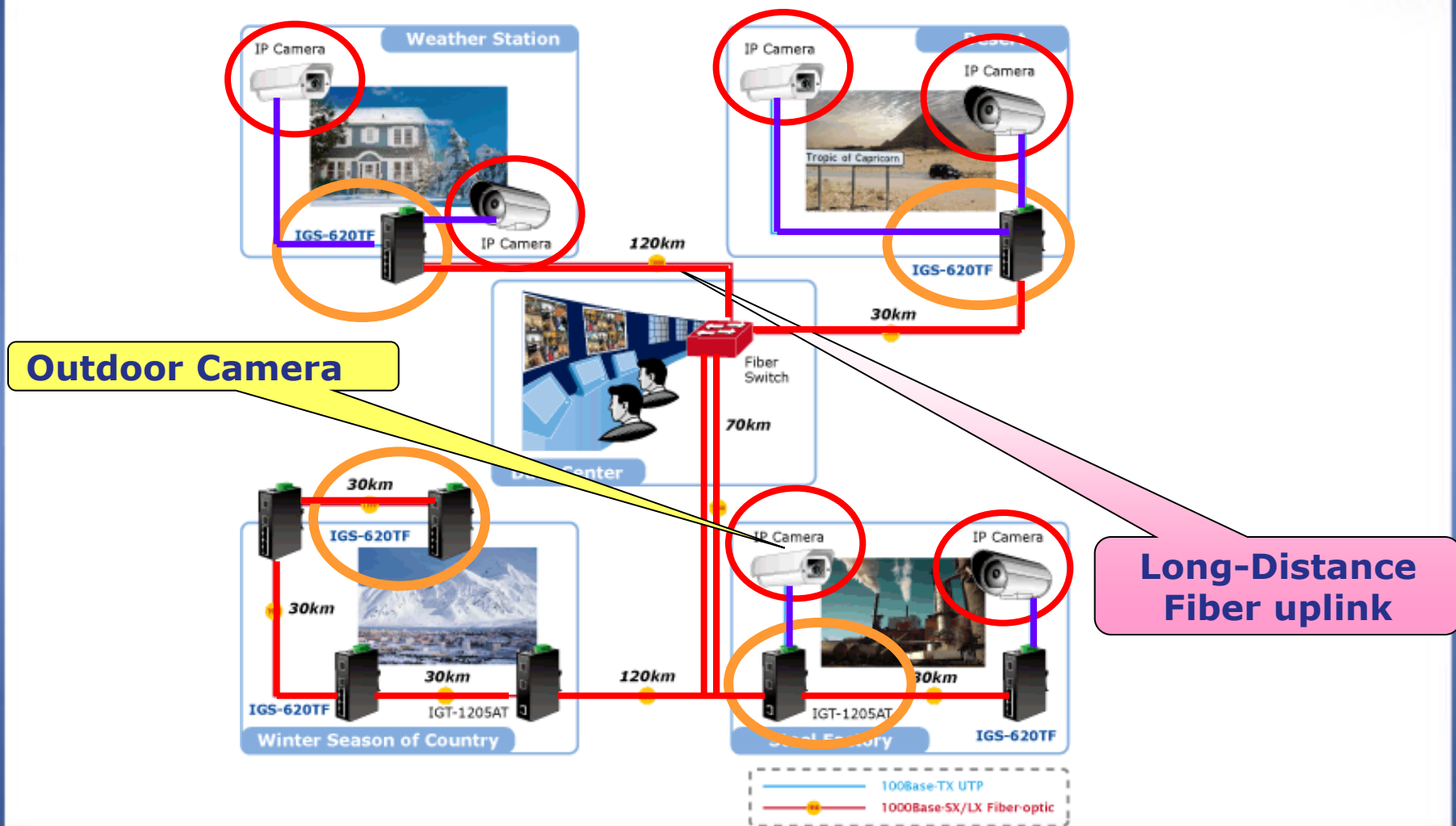
# Applications

## ◆ Hardened Environment Application

- ✓ The IGS-620TF Industrial Gigabit Ethernet Switch 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 IGS-620TF is also compatible with **100Mbps** and **1000Mbps** SFP transceivers to provide a strong, stable and long-distance connection and flexible industrial networking deployment.

# Applications

## ◆ Harsh Climate

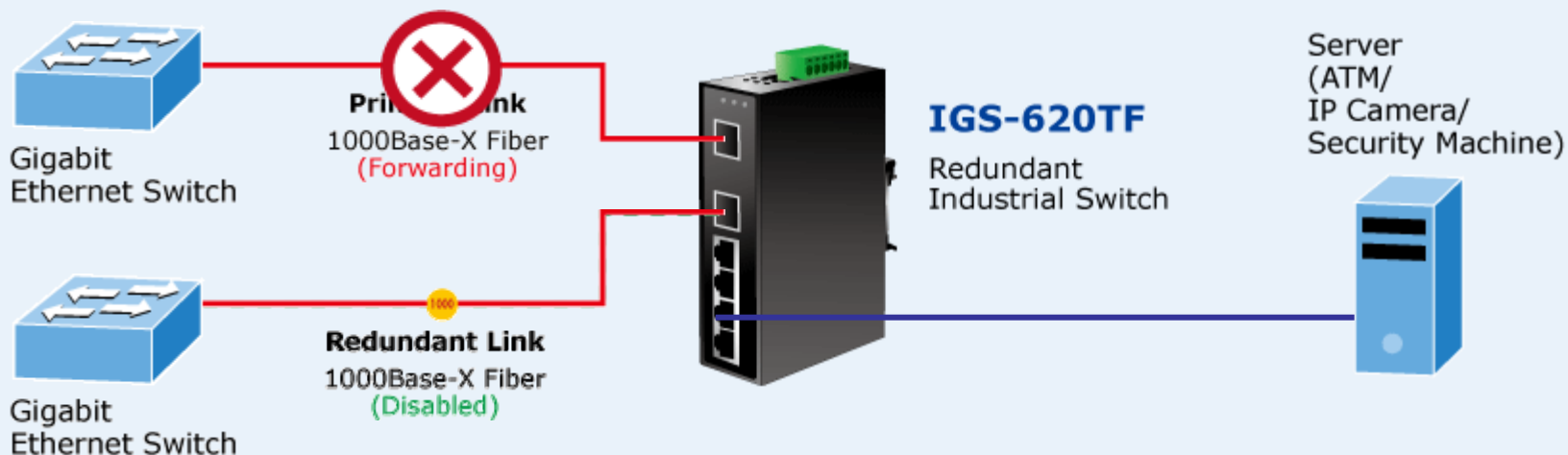


# Applications

## ◆ Redundancy Applications

- ✓ The IGS-620TF 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**

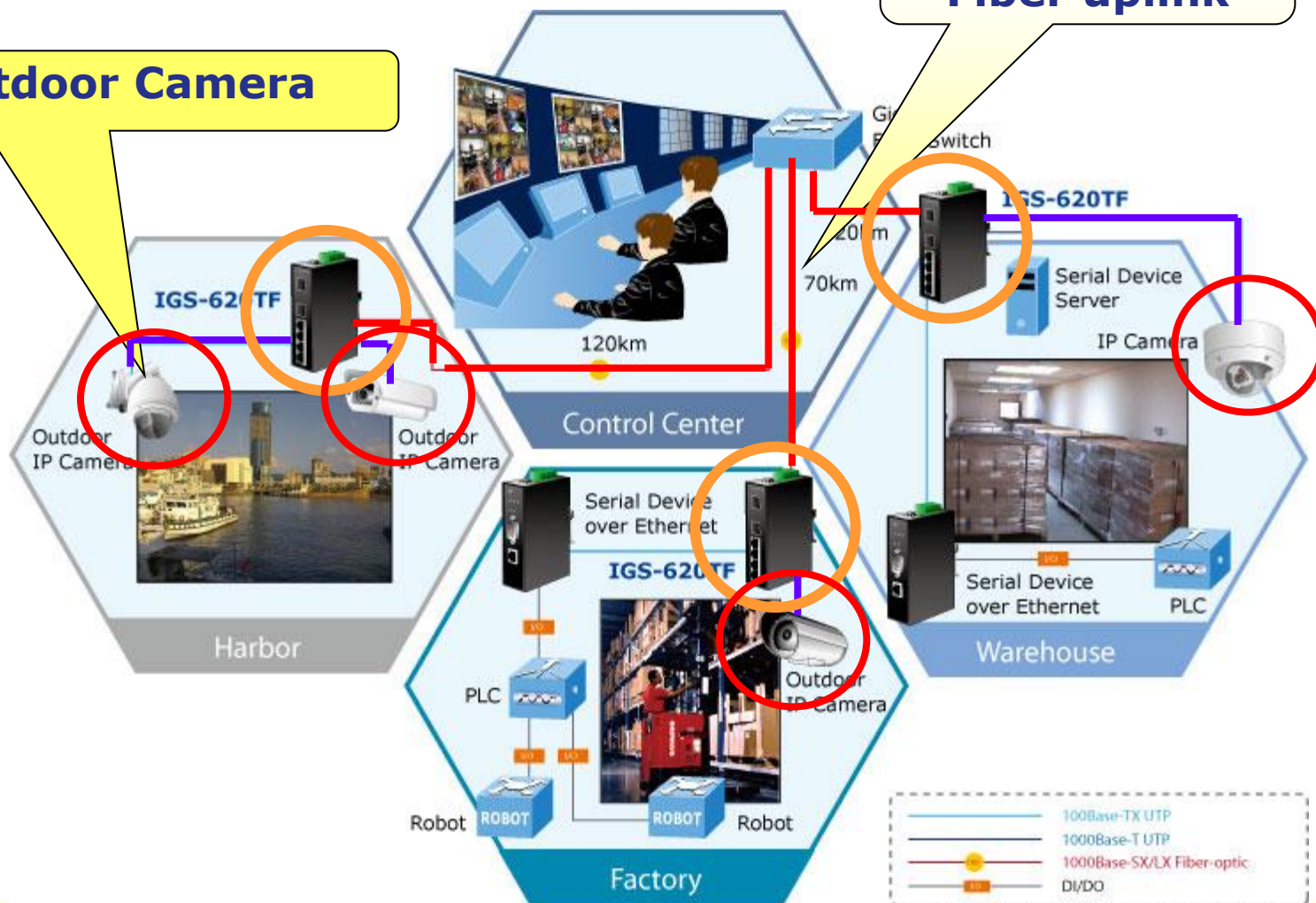


# Applications

## ◆ Public Construction

### Outdoor Camera

### Long-Distance Fiber uplink



# Appendix Sales Target

## ◆ Target Markets

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

## ◆ Profitable Products

- ✓ **The following Industrial Switches are potential to all customers :**
  - ISW-621TF, IGS-801T, IGS-802T, 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)**



# 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**