



Up to 1000Mbps 20KM

Ethernet to Fiber

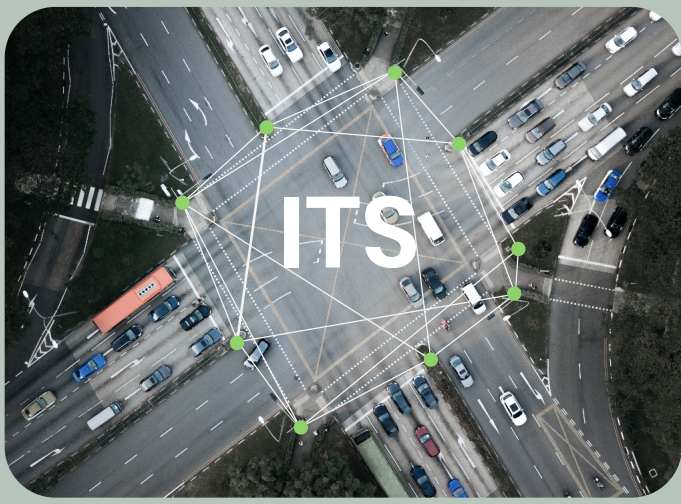
Media Converter

As a high-speed network fiber converter, IP01F has a built-in SC single-mode connector and can be used to extend the network over fibers for up to 20 km with a maximum bandwidth of 1G. For large projects, the long distance and high bandwidth are ideal for connecting large switches in the server room or transmitting multiple cameras or network equipment at once.

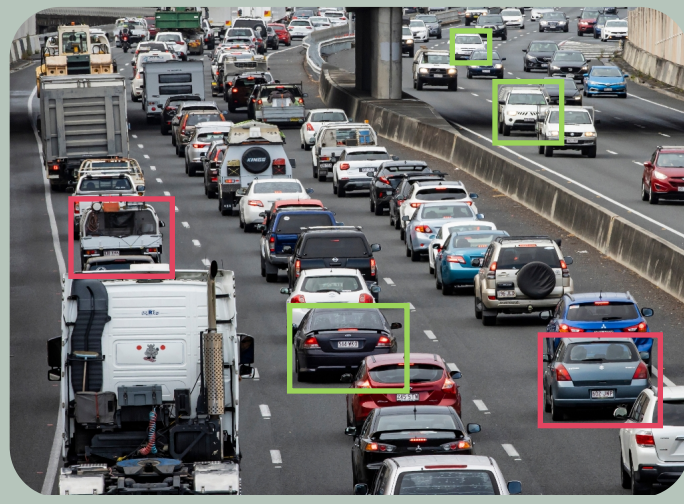


IP01F Front & Back

Media Converter Applications



Intelligent Transport Surveillance Systems



Highway Traffic Camera Systems



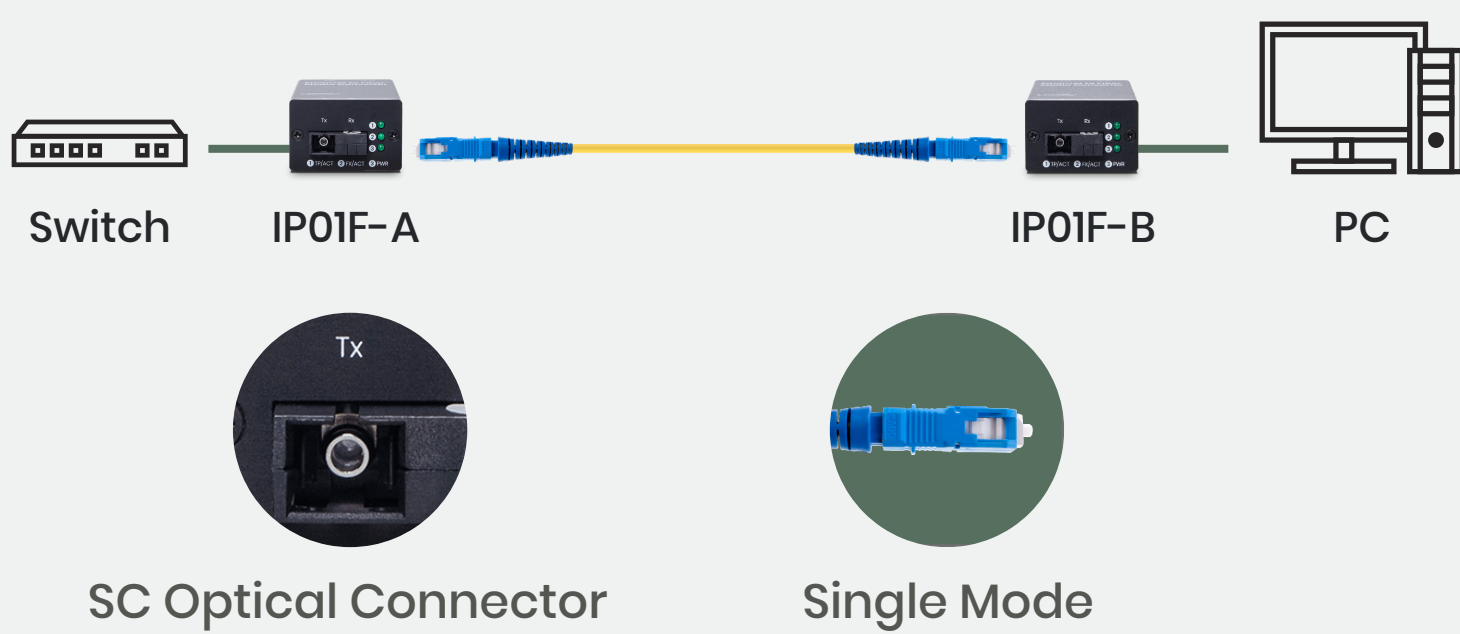
Network Security Systems



Telecommunication Systems

Single-Mode Fiber Transmission

10/100/1000 Base-TX 1000 Base-SX 20KM single-mode 1 Gbps Bandwidth



1G High Bandwidth for Long-Range CCTV Fiber Extension

Large projects usually centralize IP equipment and extend fiber from the control center to the equipment over a long distance while distributing signals.

Supposing the bandwidth consumption of a 1080p, H.264 decoded, 10fps camera is 2.1Mbps, SC&T's Fiber Media Converter with 1G bandwidth can transmit signals of 475 cameras.

[Actual Plans of SC&T's Project \(See Next Image\)](#)

Bandwidth Estimate

Resolution	3MP			5MP			8MP		
Frame rate	10	15	30 fps	10	15	30 fps	10	15	30 fps
H.264	2.1	3.2	6.4 Mbps	3.4	5.1	10.2 Mbps	5.6	8.4	16.8 Mbps
MPEG4	3.2	4.8	9.6 Mbps	9.7	14.5	29.1 Mbps	16	23.9	47.9 Mbps

Free from Noise Caused by Electric Power

As power cannot be transmitted through fiber cables, using fiber cables to transmit signals can prevent the noise caused by electric power. As a result, the use of Ethernet over fiber provides you with better IP (network) signal quality and a better audio/video/networking experience.

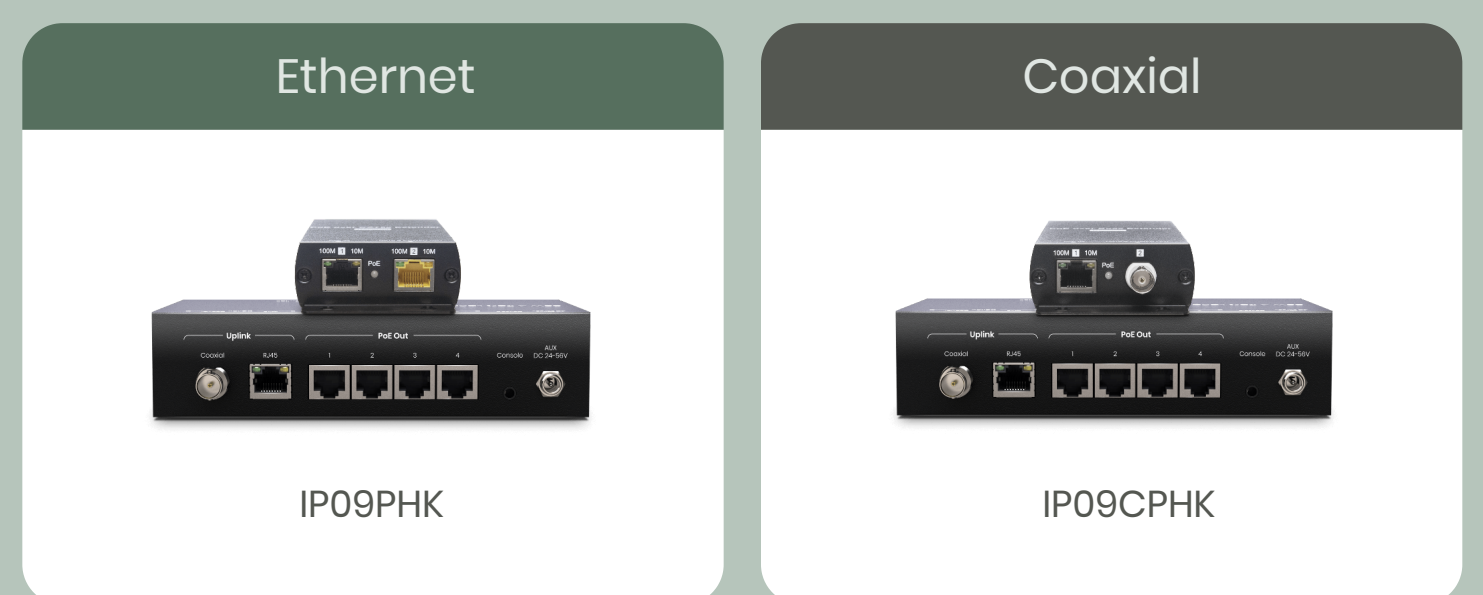
ESD Surge Protection

There are no concerns about surge damage in fiber transmission, but the metal elements may still be damaged by static electricity. IP01F has built-in ESD protection to protect your equipment from damage caused by static electricity.

Other Features

- IGMP、Jumbo frame 9K : Improve network performance during transmission.
- Half/Full-Duplex
- Plug-and-Play

Expand Front end IP/PoE Camera Equipment



4 in 1 out	100 Mbps Max Data Rate	af/at IEEE 802.3
71w, 100M (Max. 30W for each part)	Full/Half Duplex	ESD/EFT/Surge Protection

Actual Plans of SC&T's Project

