



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

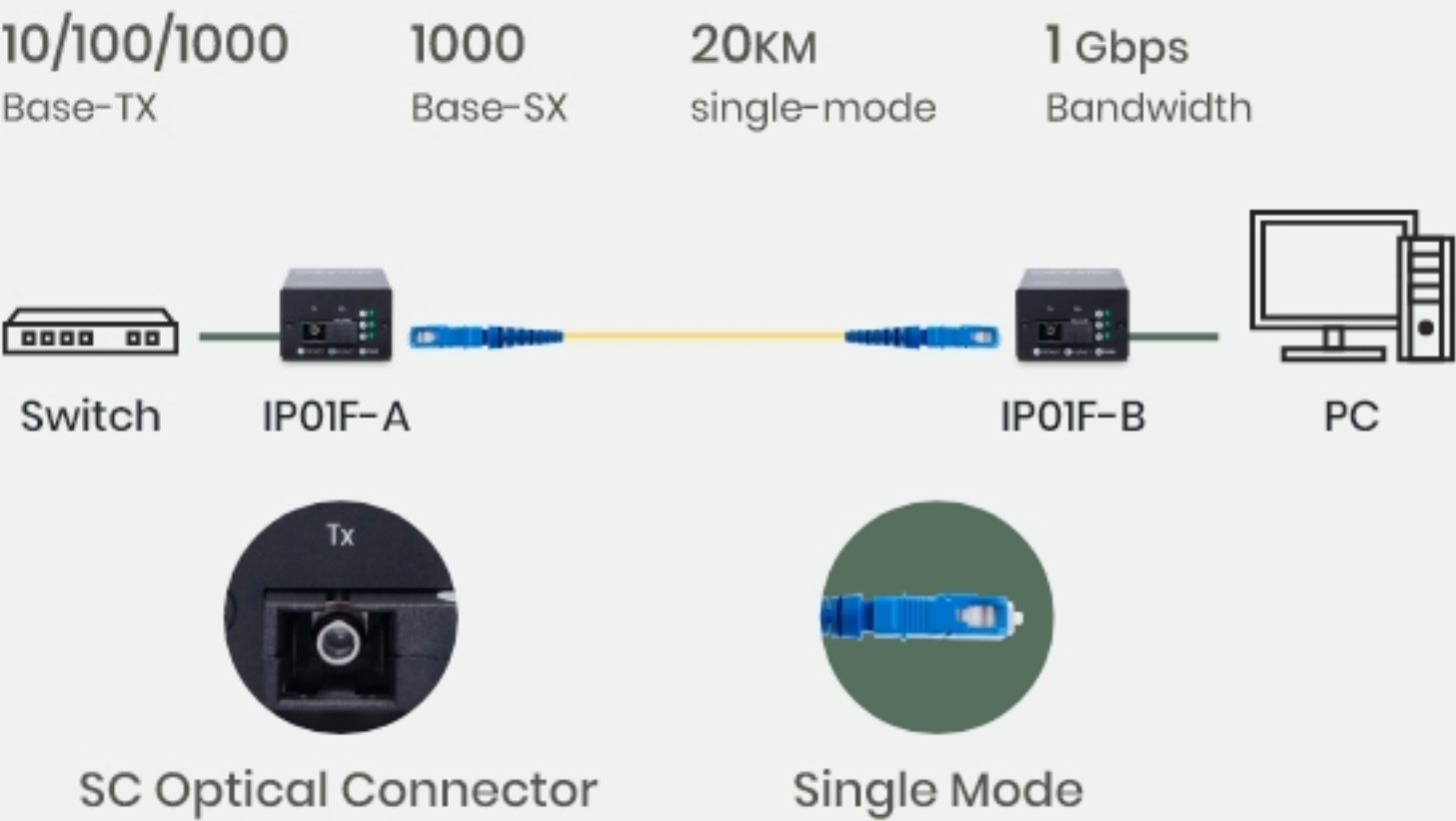


Network
Security Systems



Telecommunication
Systems

Single-Mode Fiber Transmission



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

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 21Mbps, the Fiber Media Converter with 1G bandwidth can transmit signals of 475 cameras.

[Actual Plans of 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

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

