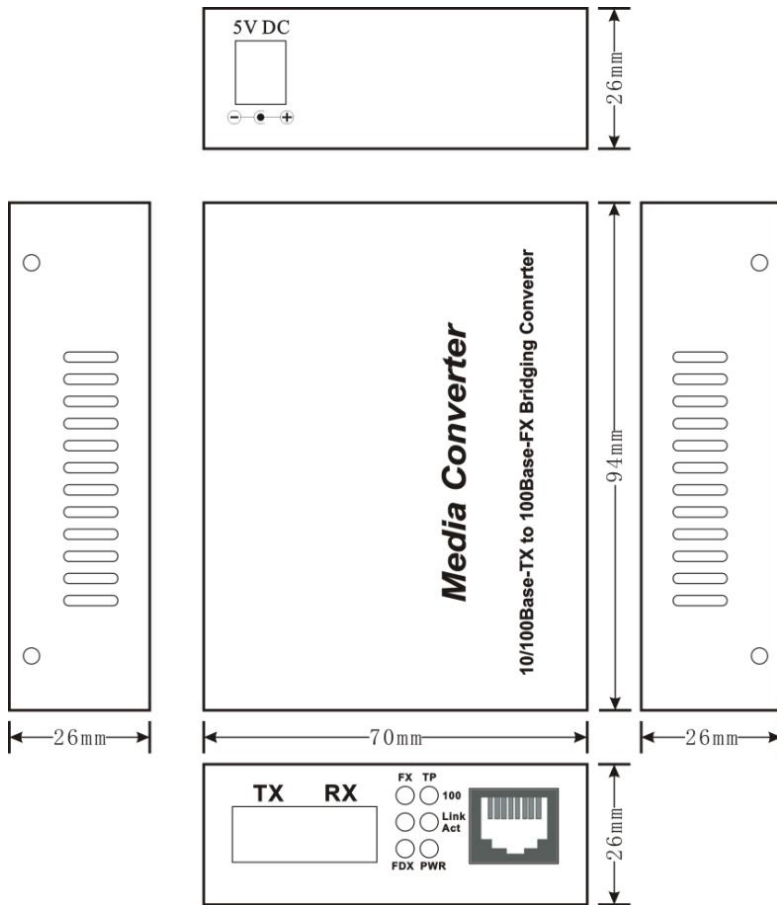# 1F1E Series Media Converter

Overview

The 1F1E is a 10/100Mbps adaptive media converter. It can transfer 100Base-TX of electrical signals to 100Base-FX of optical signals. It can extend the transmission distance from 100m to 120km via copper cables. There are also many other advantages such as isolation protection, good data security, working stability and easy maintenance.
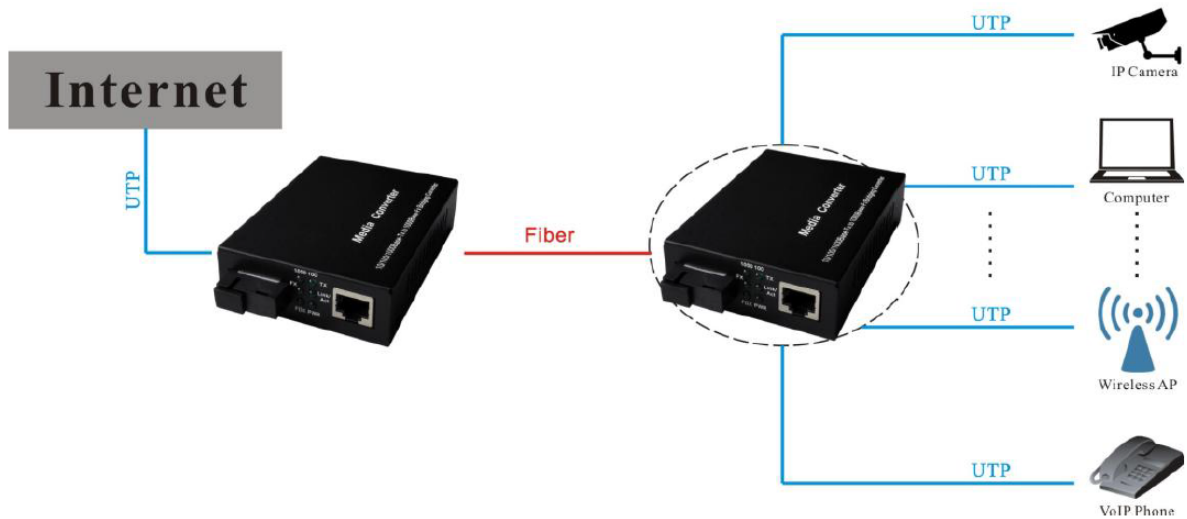

Features

- ➢ Support the switch between 100Base-TX and 100Base-FX

- ➢ 1*155Mbps full-duplex fiber port and 1*100M Ethernet port

- ➢ Each port has the complete LED Indicator light for installation, commissioning and maintenance

- ➢ Support 9K Jumbo Packet

- ➢ Support direct forwarding mode, less time delay

- ➢ Less power consumption, only 1.5W in full load condition

- ➢ Support isolation protection function, good data security

- ➢ Small size, suitable for installation in various places

Dimension

Application

Specification

Standards	IEEE802.3u 100 Base-TX/FX
Certifications	CCC, CE, FCC, RoHS
Ethernet Port	➢ Connector: RJ45 ➢ Data Rate: 10/100M ➢ Distance: 100m ➢ UTP Type: UTP-5E or higher level
Fiber Port	➢ Connector: SC/FC/ST slot ➢ Data Rate: 155Mbps ➢ Optical wavelength: 850nm/1310nm/1490nm/1550nm ➢ Fiber type: single mode 9/125μm,multi-mode 50/125μm,62.5/125μm ➢ Distance: 550m～100km
Performance	➢ Processing Type: direct forwarding ➢ Jumbo packet: 9k bytes ➢ Time Delay: ＜150μs
Power	➢ Power type: external power supply ➢ Input Voltage: AC100V～240V 50/60Hz ➢ Connector: DC Socket ➢ Working Voltage: 5V ➢ Power Consumption: 0.7W～2.0W
Environment	➢ Storage Temperature: -40～70℃ ➢ Operating Temperature: -10～55℃ ➢ Relative Humidity: 5-90% (no condensation)
Warranty	1 year
Physical Characteristics	➢ Dimension: 94×71×26mm ➢ Weight: 0.15kg ➢ Color: Metal, Black

Order information

1F1E-S20	1×100Base-FX to 1×10/100Base-TX, dual fiber, SC,20km
1F1E-A20	1×100Base-FX to 1×10/100Base-TX, TX1310/RX1550nm, SC, 20km
1F1E-B20	1×100Base-FX to 1×10/100Base-TX, TX1550/RX1310nm, SC, 20km
1F1E-S40	1×100Base-FX to 1×10/100Base-TX, dual fiber, SC,40km
1F1E-A40	1×100Base-FX to 1×10/100Base-TX, TX1310/RX1550nm, SC, 40km
1F1E-B40	1×100Base-FX to 1×10/100Base-TX, TX1550/RX1310nm, SC, 40km

Note:
1. Power supply provided by user or order additionally.
2. SC slot connector as default, FC/ST slot as request.