



# Fiber Optic to USB3.0 Gigabit Ethernet Media Converter

UFO

UF101G



Yoda Communications, Inc.

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## Introductions

The UFO UF101G is a Gigabit Ethernet media converter which converts the Gigabit data link of the fiber optical SFP port to connect to the USB3.0 Type-A (USB3.0-A) port of the Notebook PC, with compatibility to USB3.0/USB2.0 5Gbps/500Mbps super speed specifications. The UFO design is powered by the USB 5V power source with maximum 2.5Watt power consumption including the SFP plug at the highest Gigabit Ethernet transmission for the Fiber Optical converter.

With plug and play features, the UFO embeds auto driver for Windows, Linux, and Mac OS, to provide for the on-site professionals to access the fiber network through the USB port of their Laptop without needs of an external AC/DC power adaptor.

The UFO SFP connector support Gigabit IEEE802.3u/ab 1000Mbps/100Mbps Ethernet connections. It may take 1Gbps or 100Mbps SFP Plug to convert into USB3.0 or USB2.0 data rates for the laptop. This allows the laptop to connect to the fiber network through its USB connector at a distance of either 1-2km for multi-mode, or 10-20km for single-mode SFP plugs.

With the Link Fault Pass-through (LFP) function, the UFO can monitor the remote fiber link for loss of signal. In case of a loss of RX signal on one media port, the converter will automatically disable the TX signal to the other media port, thus passing through the link fault. It then sends out the far end fault (FEF) signal to stop sending link pulse to the link partner once a loss of the fiber RX signal occurred. Then the link partner will synchronously stop sending data. FEF prevents loss of valuable data transmitted over invalid link. Combining the LFP and FEF troubleshooting features of UFO, both end devices can be notified for a loss of fiber link.

There are 2 LED indicators for the SFP connector; one for 100Mbps or 1Gbps Link/Act, and the other for Local Fault Pass-thru (LFP) event. When the DIP switch#1 is set ON, the SFP is set for 1Gbps, otherwise it is set for 100Mbps plug. When the DIP switch#2 is set ON, the LFP function will be enabled, the LFP LED indicator will be ON to indicate that the LFP event occurred. The reset push button is used to activate the new dip switches setting, whenever the DIP switches setting is changed.

For the USB3.0 Type A connector interfaces, the UFO is compatible to USB3.0, 2.0, and 1.1 for USB super speed data connection. There are 2 LED indicators for the USB interface. The USB LED will be ON indicating that the UFO is in connection with the USB port of the Laptop. The PWR LED will be ON indicating that the UFO is powered from the USB of the Laptop.



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This USB to fiber converter provides reliable connectivity while protecting your network from the electronic interference with copper Ethernet networks. Fiber-to-the-desk (FTTD) maximizes network security, reducing the risk of data leaks for sensitive information, without compromising network speed and reliability. With Compact and portable design, the UFO makes it easy to access the fiber network with your laptop when you're on the go.

## Key Features

- Fiber Optical SFP to USB3.0 Type-A Gigabit Ethernet Media Converter
- 1x SFP port for 100/1000 Mbps SFP Plug
- 1x USB-A port supporting USB3.0, 2.0, and 1.1
- Power consumption: Max. 5V/0.5A (2.5Watt)
- Compliant with IEEE802.3, IEEE802.3X, 802.3u, 802.3ab
- Ethernet Jumbo frame: 9K bytes
- Supporting IPv4/IPv6, TCP, UDP
- Wake-on-LAN support
- Laptop OS Compatibility: Windows, Linux, and MacOS
- LED Indicators: SFP, LFP, USB, PWR
- 2 Dip Switches for settings of SFP speed and LFP function
- Reset Push Button for activation of SFP and LFP function
- Power Input: from USB
- Plug & Play
- Physical Dimension: 60mm x 89.2mm x 26mm (WxDxH)



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## Technical Specifications:

<b>SFP Port</b>	SFP with IEEE802.3u/ab Ethernet at 1000m/100Mbps
<b>Ethernet Data Rates</b>	1000/100 Mbps
<b>Ethernet Interface</b>	Supporting IEEE802.3, IEEE802.3X, 802.3u, 802.3ab
<b>Ethernet Jumbo Frame</b>	9K bytes
<b>Ethernet Packets</b>	Supporting IPv4/v6, TCP, UDP, Wake-on-LAN
<b>USB Data Port</b>	9-pin USB-A connector supporting with USB3.0, 2.0, and 1.1
<b>Power Consumption</b>	Max. 5V 0.5A
<b>Laptop OS Compatible</b>	Windows 7,8,10,11, MacOS 10.9-10.14,11,12, Linux 3.5 and up
<b>Input Power Source</b>	USB
<b>SFP LED Indicators</b>	Link Fault Pass-thru (LFP) (Amber) Ethernet Data Link/Act (Green)
<b>USB-A LED Indicators</b>	USB-A Link/Act (Green) USB Power ON (Green)
<b>DIP Switches x2</b>	For setting SFP speed and LFP function
<b>Reset Push Button</b>	For activation of SFP speed and LFP function
<b>Plug &amp; Play</b>	With Laptop Notebooks and PC supporting USB3.0/USB2.0
<b>Operating Ambient Temperature</b>	0 to 40 °C
<b>Dimensions (WxDxH)</b>	60 x 89.2 x 26 mm



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## Front Panel

### Fiber SFP to USB3.0 Type-A Gigabit Ethernet Media Converter

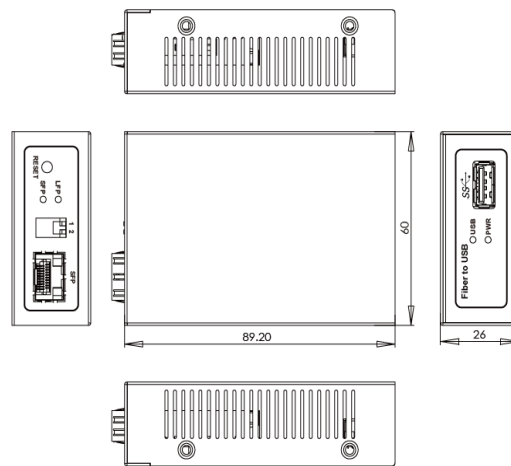
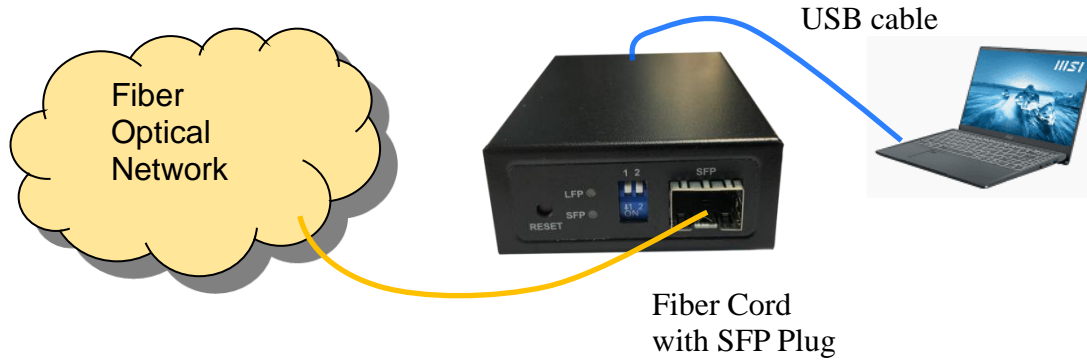


## Rear Panel

### 1000/100Mbps Gigabit Ethernet Fiber SFP Port with Link Fault Pass-thru function



## Applications:



## Ordering Information

UFO	Fiber Optic to USB Gigabit Ethernet Media Converter
USB-A to USB-A cable	Male USB type-A to Male USB type-A Cable with 30cm in length

