

# USB-C 3.1 to Fiber Optic Transceiver Gigabit Ethernet Adapter, Singlemode, 1310 nm, LC, Up to 5 km

MODEL NUMBER: **U436-SMF-1G-LC**



USB to Ethernet adapter provides Fiber-to-the-Desk (FTTD) connectivity to desktops, tablets and laptops in your mission-critical network.

## Features

### USB-C to Ethernet Adapter Bolsters Your Fiber-to-the-Desk (FTTD) Network Connections

The U436-SMF-1G-LC allows you to instantly connect your computer, laptop or tablet's USB-C port to a 10/100/1000 Mbps fiber optic network. The adapter helps bring fiber connectivity directly to your desk or workstation without a costly overall upgrade to fiber optic infrastructure. It is bus-powered through the USB-C port, so no external power is needed. It transmits data up to 5 kilometers from your fiber network using a 1310 nm wavelength.

### Hot-Swappable for Installation Without Network Interruption

This Ethernet adapter is fully hot-swappable, so you can install it without a potentially costly network shutdown or device reboot. Just connect the built-in cable to your device's USB-C port, and connect the LC SFP transceiver to a high-speed managed switch, router or hub using existing or newly run singlemode fiber cable (such as N370-Series, sold separately).

### Delivers Full Gigabit Ethernet Performance with Audio and Video Streaming

This compact transceiver Ethernet adapter is ideal for cable installers and troubleshooters who need to quickly and easily test multiple fiber connections. The U436-SMF-1G-LC supports full 1 Gbps fiber optic network speeds, as well as USB 3.1 Gen 1 speeds up to 5 Gbps, allowing you to transfer data efficiently and stream audio and video. A blue LED indicates successful Ethernet connection and data transfer. The adapter works with Windows and Mac operating systems.

### Shielding EMI/RFI Line Noise Helps Your Equipment Perform Better

Various electromagnetic and radio sources found in virtually every home and business can cause disruptive interference on the AC line. Known as EMI (electromagnetic interference) and RFI (radio frequency interference), this line noise is a common cause of performance problems. By connecting your desktop or laptop to a fiber network, your equipment is protected from disruptive line noise that can inflict hardware damage or data loss. This EMI/RFI shielding also helps your connected components perform better and last longer.

### Future-Proof Your Hardware to Keep Up with Growing Traffic Rates

Besides being more reliable than lower-bandwidth copper cabling, fiber optic Ethernet cables allow data to move faster and farther without the risk of data leaks. The U436-SMF-1G-LC provides an instant FTTD connection that allows your desktop, laptop or tablet to operate at its full online potential.

## Highlights

- Brings high-speed fiber optic connectivity to your workstation without costly upgrade
- Provides 1 Gbps throughput up to 5 km via built-in singlemode LC SFP transceiver
- Shields against disruptive EMI/RFI noise that can inflict hardware damage or data loss
- Hot-swappable interface lets you install and uninstall without shutting down computer
- Gigabit Ethernet adapter is bus-powered via USB, so no external power is required

## Applications

- Provide an FTTD connection that allows immediate access to a high-speed fiber optic Gigabit Ethernet network
- Install an LC port on your tablet, laptop or PC for the purpose of connecting a singlemode or multimode fiber cable
- Upload data from your notebook or download data from the Ethernet at true 10/100/1000 Mbps speeds
- Bypass a malfunctioning Ethernet card on your laptop or computer

## System Requirements

- Computer, tablet or laptop with USB-C port
- 10/100/1000 Mbps Gigabit Ethernet network
- Compatible with N370-Series singlemode LC fiber optic cabling

## Package Includes

- U436-SMF-1G-LC USB-C to Fiber Optic Transceiver Ethernet Adapter
- Quick Start Guide

## Specifications

<b>OVERVIEW</b>	
UPC Code	037332256874
Technology	Singlemode
Optical Mode	SM
Mode Type	Singlemode
<b>INPUT</b>	
Built-In Cable Length (ft.)	0.5
Built-In Cable Length (m)	0.155
Built-In Cable Length (in.)	6.1
Built-In Cable Length (cm)	15.5
Bus Powered	Yes
<b>CONNECTIONS</b>	
Number of Ports	1
Side A - Connector 1	USB C (MALE)
Side B - Connector 1	LC DUPLEX (FEMALE)
Connector Plating	Nickel
Contact Plating	Gold
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
LED Indicators	Ethernet Data Activity (Blue); Illuminates solid when connected to a network; Flashes when transmitting data
<b>PHYSICAL</b>	
Color	White
Cable Jacket Material	PVC
Cable Outer Diameter (OD)	4.5 +/- 0.2 mm
Wire Gauge (AWG)	30, 28, 24
Unit Dimensions (hwd / in.)	0.710 x 1.610 x 2.200
Unit Dimensions (hwd / mm)	18 x 41 x 56
Unit Packaging Type	Box
Unit Weight (lbs.)	0.1164
Unit Weight (kg)	0.05
<b>ENVIRONMENTAL</b>	



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Operating Temperature Range	32° to 131°F (0° to 55°C)
Storage Temperature Range	32° to 140°F (0° to 60°C)
Relative Humidity	5% to 90% RH, Non Condensing
<b>COMMUNICATIONS</b>	
Network Compatibility	1 Gbps (Gigabit)
Wavelength	1310nm
Transmission Distance	5 Km (3.1 Mile)
IEEE Standards Supported	802.3az
<b>FEATURES &amp; SPECIFICATIONS</b>	
USB Specification	USB 3.0 (up to 5 Gbps); USB 3.1 Gen 1 (up to 5 Gbps)
Driver Required	Yes
Optical Port	LC
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	3-year limited warranty

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