



SCT-USB4-FMM

USB3.1/2.0/1.1 Fiber Extender



User Manual

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Version: SCT-USB4-FMM_2025V1.2

Product Introduction

The USB optical fiber extender uses optical fiber conversion technology to realize the optical fiber transmission of USB3.1/2.0/1.1 signals. When used for long-distance transmission of USB3.1 signals, the data rate can up to 5Gbps, the transmission distance can up to 100m by using OM3 multi-mode fiber.

The extender adopts metal enclosure and has four mounting holes for easy installation. It has an integrated USB 3.1 hub with four ports and supports Plug-and-Play (PnP), no need to install driver is required.

This product adopts advanced optical fiber transmission technology to ensure good anti-electromagnetic interference ability.

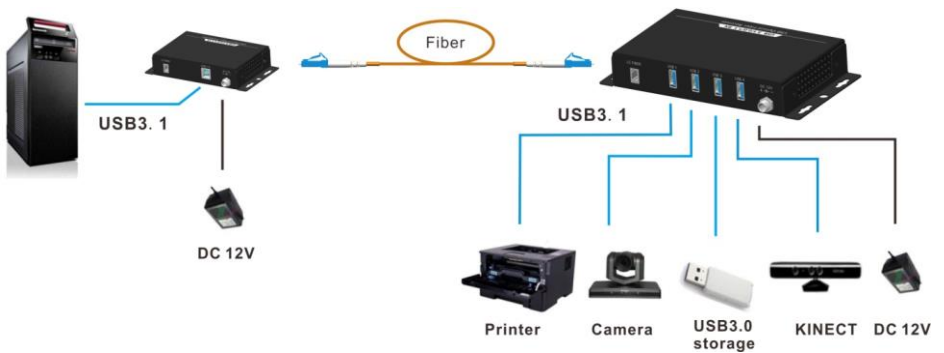
Features

- Supports Windows system, Mac OS and X and Linux.
- Compatible with USB3.1/2.0/1.1.
- USB3.1 Gen1 data rate is 5Gbps.
- USB2.0 data rate is 480Mbps, USB1.1 data rate is 12Mbps.
- Integrated USB 3.1 hub with four ports, support all USB 3.1, 2.0, 1.1 devices.
- Transmits audio and video signal over Single-mode Fiber.
- 1xLC Fiber connector.
- Supports the technology of converting USB3.1 to optical fiber without delay.
- External DC 12V power supply.
- Strong anti-interference ability.

Application

- Machine vision
- Security monitoring
- Data storage
- Video conference
- Medical equipment system

Application Diagram

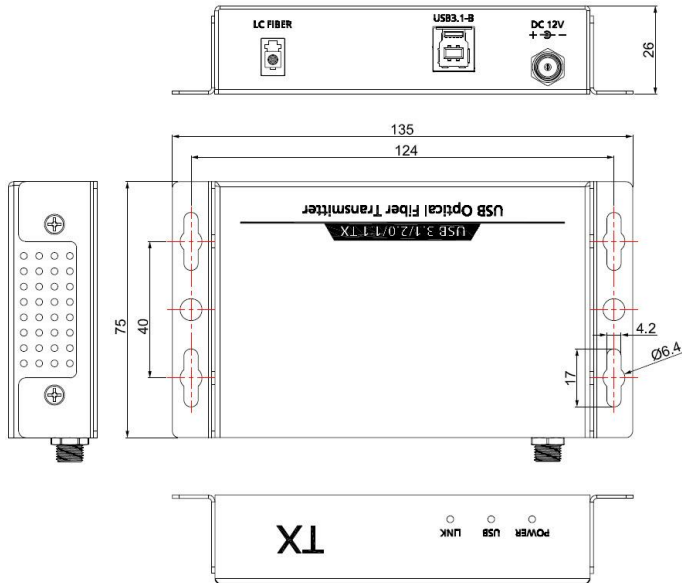


Specification

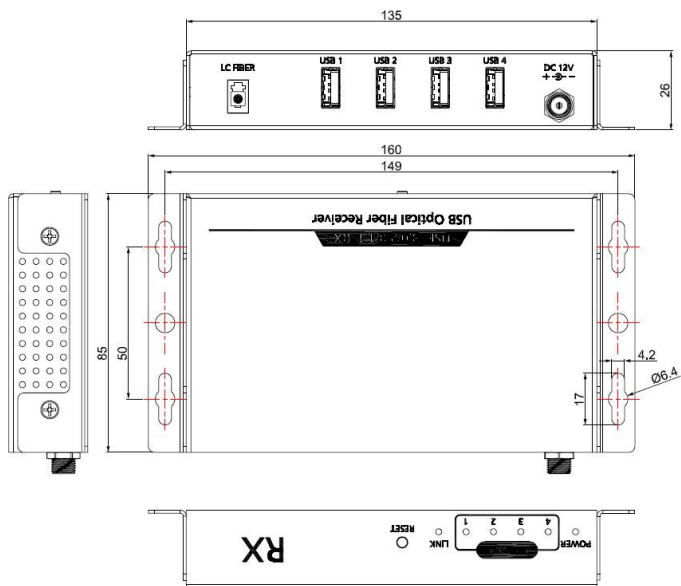
Distance	USB3.1 Gen1 Non-real-time transmission: 300m Real-time transmission: 100m
Data rate	USB3.1 GEN1: 5Gbps USB2.0: 480Mbps USB1.1: 12Mbps
USB Standards	Control, Interrupt, Isochronous und Bulk
Transmitter (SCT-USB4-FMMT)	USB Interface: 1xUSB3.0 type-B male connector Fiber Interface: 1xLC Dimensions: 135mm x 75mm x 26mm Installation: 4 mounting holes for fixing Enclosure Material: Metal Power Supply: External DC 12V
Receiver (SCT-USB4-FMMR)	USB Interface: 4xUSB3.0 type-A female connector Fiber Interface: 1xLC Dimensions: 160mm x 85mm x 26mm Installation: 4 mounting holes for fixing Enclosure Material: Metal Power Supply: External DC 12V
Environment	Operating Temperature: -10 to +60°C (+50° to +140°F) Storage Temperature: -45 to +85°C (-49° to +185°F) Operating Humidity: 20% to 80% relative humidity, non-condensing Storage Humidity: 10% to 80% relative humidity

Mechanic Dimension

Transmitter (SCT-USB4-FMMT): unit: mm



Receiver (SCT-USB4-FMMR): unit: mm





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