



USB 3.2 Gen1 fiber extender, 5 Gbps, 4 ports: 3x USB-A / 1x USB-C, 20km



Quick Installation Guide

DA-73123

Table of content

1.	Introduction	3
2.	Technical Features.....	4
3.	Package content.....	4
4.	Specification.....	5
5.	Wall Mounting	7
6.	Ports and Interfaces	7
7.	Connection Diagram	9
8.	Q&A	10

Important Safety Instructions:

- To prevent electric shock, please ensure that all devices are properly grounded.
- Do not place this device near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place the device on an uneven or unstable surface, the device may fall resulting in a malfunction.
- Do not expose this device to rain or place it near water. Any liquid that goes into the device may cause a failure, fire, or electric shock.
- If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

1. Introduction

This USB extender provides a reliable solution to transmit USB signals over distances of up to 20 kilometers using an LC single-mode fiber optic cable (included) without signal loss. Ideal for use in demanding, wide-area environments such as surveillance systems, data centers, remote monitoring or industrial environments where longer USB connections are required.

The USB 3.2 Gen1 standard enables transfer rates of up to 5 Gbps. Nothing stands in the way of a fast and smooth connection of various USB devices such as cameras, hard disks, printers, scanners, keyboards, mice and USB sticks. Thanks to the support of USB 2.0 and 1.1, older devices can also be integrated without any problems.

The extender offers maximum flexibility thanks to its four USB inputs (3x USB-A 3.2 Gen1 and 1x USB-C 3.2 Gen1), allowing multiple devices to be operated simultaneously - ideal for working environments with different peripherals. The plug & play design enables easy installation without the need for additional drivers. In addition, the robust metal housing ensures durability and stability, even in demanding industrial environments.

Say goodbye to the limitations of traditional USB cables - with this Digitus USB 3.2 Gen1 extender, you can place your USB devices where you need them without compromising on performance.

2. Technical Features

- USB extension over 20km: Extends USB signals up to 20km (via LC Single-mode fiber optic cable) without signal loss.
- Transmitter unit is supplied with power via the host PC – No additional power supply unit required
- Four USB ports: Multifunctional USB hub – Supports the connection of up to four USB devices simultaneously (3x USB-A 3.2 Gen1, 1x USB-C 3.2 Gen1).
- USB 3.2 Gen1: Supports transfer rates of up to 5 Gbps, ideal for numerous USB devices such as printers, cameras, hard disks, keyboards and more
- Safe protection – Integrated ESD protection (up to 8kV) as well as overvoltage and lightning protection reliably protect your devices.
- Plug & Play – No software required. Simply connect and use immediately.
- Robust and versatile: The metal housing ensures durability, ideal for demanding environments such as industry, large offices or security systems.

3. Package content

- 1x Transmitter
- 1x Receiver
- 2x Single-mode SFP module
- 1x Single-mode fiber optic cable 10m

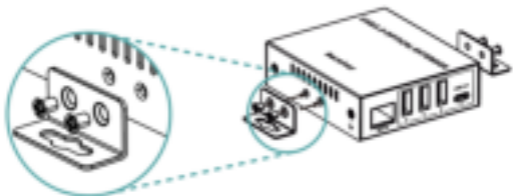
- 1x Power supply unit (DC 12V/2A) 1.5m
- 1x Wall mounting material (brackets, screws)
- 1x Earthing screw
- 1x Quick Installation Guide

4. Specification

Maximum range	20km (via LC single-mode fiber optic cable)
USB ports	4x USB 3.2 Gen1 inputs (3x USB-A 3.2 Gen1, 1x USB-C 3.2 Gen1)
Transfer rate	Up to 5 Gbps (USB 3.2 Gen1)
Protection	ESD protection (electrostatic discharge), overvoltage and lightning protection, short-circuit protection
Plug & Play	Simple installation, requires no software
Transmitter unit connections (TX)	1x USB-A input (USB 3.2 Gen1) – Connection signal source (notebook, etc.)
	1x SFP+ input – STP+ 10G module connection
	2x Status LED indicator
	2x Status power indicator
Receiver unit connections (RX)	4x USB output (USB 3.2 Gen1) – 3x USB-A & 1x USB-C connection mouse, hard disk, keyboard, printer, cameras, etc.

	1x SFP+ output – STP+ 10G module connection
	1x Power supply connection (DC 12V/2A) – External power supply connection
	2x Status LED indicator
	2x Status power indicator
Power supply	TX: Via source device
	RX: DC 12V/2A
Power consumption	TX: $\leq 2W$
	RX: $\leq 3W$
Operating temperature	-20°C to 60°C
Power consumption	TX approx. 3.5 W, RX approx. 2.5 W
Dimensions	L 7.5 x W 2.7 x H 1.7 cm (TX) L 8.5 x W 7.6 x H 2.5 cm (RX)
Weight	TX 32g, RX 175g
Housing material	TX: Aluminum, RX: Metal
Color	Black

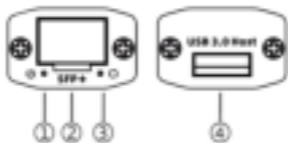
5. Wall Mounting



Choose the wall mounting position and attach the mounting ears to the unit according to the diagram.

6. Ports and Interfaces

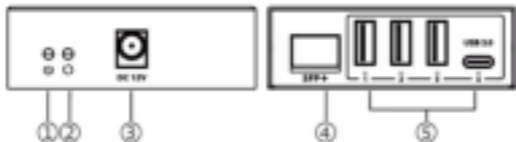
Transmitter (TX)



1	Power indicator	Steady on: Powered on Light off: Powered off
2	SFP+ Signal input	Insert SFP+ 10G optical fiber module
3	Status	• Light off: Transmitter and the

	indicator	<p>receiver have not established a connection</p> <ul style="list-style-type: none"> • Steady on: Optical fiber communication between transmitter and receiver successful
4	USB Host 3.0 port	Connect USB 3.0 port of computer host, compatible with USB 3.2 Gen1

Receiver (RX)

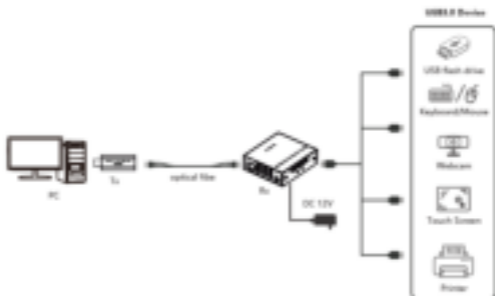


1	Power indicator	<p>Steady on: Powered on</p> <p>Light off: Powered off</p>
2	Status indicator	<ul style="list-style-type: none"> • Light off: Transmitter and the receiver have not established a connection • Steady on: Optical fiber communication between transmitter and receiver successful
3	Power input	Connect with DC 12V/2A power adapter
4	SFP+ Signal	Insert SFP+ 10G optical fiber

	output	module
5	USB 3.0 port	Connect with USB 3.0 device, such as printer, camera, scanner, USB flash drive, etc.

7. Connection Diagram

One-to-one connection



Connection Instructions

1. Connect the transmitter to the Host PC via USB cable and connect the USB devices to the receiver via USB cables.
2. Connect each SFP module to the transmitter and receiver unit and connect the transmitter and receiver with an LC fiber optic cable.
3. Plug the power supply into the receiver to get started.

8. Q&A

Q: USB device is not recognized when connected?

A:

- 1) Check whether USB port of the transmitter is connected to the USB 3.0 interface properly.
- 2) Power the transmitter or receiver again.

Q: The receiver is unstable when connected to an external hard drive?

A:

- 1) When connecting high-power USB devices, it is necessary to supply additional power to external devices.

Hereby ASSMANN Electronic GmbH declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address.

info@assmann.com

Assmann Electronic GmbH
Auf dem Schüffel 3
58513 Lüdenscheid
Germany

