



- ▶ Extend USB3.1 advanced digital cameras or storage devices up to 330ft (100m) over fiber
- ▶ Supports USB3.1 gen1 throughput up to 5Gbps
- ▶ Industrial locking connectors for USB & Power
- ▶ Uses one duplex LC Multimode fiber
- ▶ Integrated 2-port USB hub
- ▶ Secure, isolated, high-speed extension
- ▶ Plug-and-play product, no drivers or jumpers
- ▶ Supports all major operating systems

Features and Benefits

- Extends USB3.1 devices beyond the standard 3m cable limit for USB3.1 peripherals, up to 330ft(100m)
- Uncompromised throughput of USB3.1 gen1 rate of 5Gbps
- Integrated 2-port hub provides support for two different USB3.1 peripherals in industrial environments
- Uses standard 50/125µm multimode fiber cable terminated with one duplex LC type connector
- Fiber cable ensures high-speed transmission, electrical isolation, high reliability, and transmission security
- Secure USB device connection using USB and power locking connectors
- Works with AIA USB3 Vision™ compliant devices
- Plug-and-Play installation: no configuration, driver installation, or set-up required
- Supports all major operating systems: Windows®, Mac OS X®, and Linux®
- The receiver unit requires a 24VDC power adapter (included), the transmitter unit is USB interface powered

Product Overview

The CrystalLink USB3.1 extender is a professional and industrial grade extender, ideally suited for the remote and secure operation of advanced digital USB3.1 cameras. Other USB3.1 devices can be remotely located using the CrystalLink USB3.1 extender, at a distance of up to 165ft (50 metres).

The extender must be connected to a USB3.1 host port and the camera or other remote devices must be USB3.1 compliant.

The receiver unit features an integrated 2-port USB3.1 hub for simultaneous operation of 2 remotely located USB devices. The USB devices can be connected and locked to the receiver unit using USB3.1 type locking connectors for secure connection. The power connectors on the product are also secure locking type.

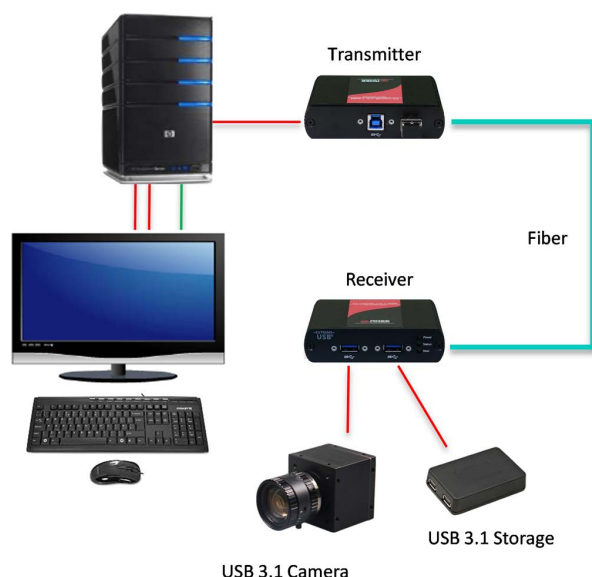


USB3 locking connector



Locking power connector

Typical Application



The USB3.1 extender cable is designed for use in environments which may be hazardous, or where highly detailed photo/image magnification is required: medical applications, robotic assembly lines, medical monitoring, post-production editing, remote storage, or other applications.

Installation Ensure that the USB host and the extended USB device are USB3.1 compliant. Connect the transmitter to your computer or host device USB port. Connect a USB3.1 camera or other USB3.1 device to the receiver unit. Connect the transmitter to the receiver with up to 330ft (100m) of multimode fiber cable. A distance of approximately 165ft (50m) is recommended with USB3.1 storage type devices. Apply power and the installation is complete.

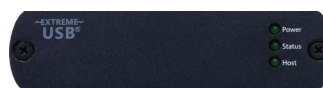
Operation The CrystalLink USB3.1 features a 2-port USB3.1 hub that enables USB devices such as medical, surveillance, or industrial robotic cameras to be operated remotely. The user would typically operate the camera, using a keyboard, mouse or joystick, and a monitor, located at the host PC. The remote unit provides 900mA of power to each USB port. Backward compatibility with USB2.0/1.1 is not supported.

Specifications

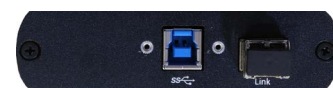
Dimensions (W × D × H)	3.94" × 2.99" × 1.02" 100mm × 76mm × 26mm
Power	Local: from USB3.1 interface Remote: 100-240VAC, 50/60Hz, 24VDC, 1A, Locking 2.5mm center-positive
Fiber cable type	Fiber optic 50/125μm multimode with LC type connectors OM2: 50/125μm up to 165ft (50m) OM3: 50/125μm up to 330ft (100m)
Fiber cable distance	Up to 330ft (100m) USB3.1 storage devices, up to 165ft (50m)
USB device support	USB3.1 up to 5Gbps (Not backward compatible with USB2.0/1.1)
USB host support	xHCI controllers
LED Indicators	Transmitter: power, status, host Receiver: power, status, host
Connectors	Transmitter: 1 × USB3.1 type B connector 1 × duplex LC fiber link connector Receiver: 2 × USB3.1 type A locking connector 1 × duplex LC fiber link connector 1 × 24VDC locking power connector
Environment	Operating temp: 32°F – 122°F (0°C – 50°C) Storage temp: -4°F – 158°F (-20°C – 70°C) Rel. humidity: 20% – 80%, non-condensing
Approvals	FCC, CE, RoHS2
Machine Vision	AIA USB3 Vision™ compliant

Part numbers

CLK-2U3FMB-100M	CrystalLink USB3.1 Extender
RM-UD/CLKUSB	Shelf, wall, or under desk bracket



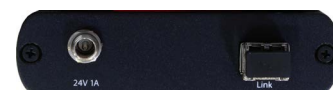
Transmitter front



Transmitter back



Receiver front



Receiver back

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