

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

