

HDBaseT Extender Kit for USB 2.0

AT-USB-EX100-KIT



The Atlona **AT-USB-EX100-KIT** is a long-distance extender kit for high speed USB signals. It supports transmission of USB 2.0 data up to 330 feet (100 meters) using a single, cost effective Category-type twisted pair cable. The AT-USB-EX100-KIT is ideal for popular conferencing applications such as Zoom® and Microsoft® Teams®, where USB components including laptops, cameras, microphones, and speakers are located in different areas of the room. The kit is also suitable in classrooms for routing USB between an interactive display or projector, and the instructor's laptop. The AT-USB-EX100-KIT includes both transmitter and receiver endpoints. Compact enclosures and included brackets allow the devices to be discretely mounted near computers and USB peripherals. The AT-USB-EX100-KIT is a great solution for connecting USB components separated by distances not supported by traditional cabling.

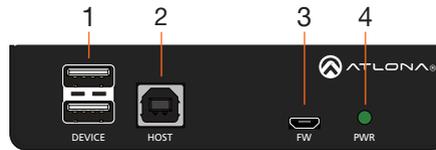
Package Contents

- 1 x AT-USB-EX100-TX
- 1 x AT-USB-EX100-RX
- 2 x 5 V / 4 A Power Supplies
- 4 x Mounting Plates
- 8 x Mounting Screws
- 1 x Installation Guide

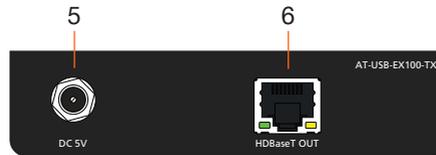


IMPORTANT: Visit <https://www.atlona.com/product/AT-USB-EX100-KIT> for the latest firmware updates and User Manual.

AT-USB-EX100-TX



Front



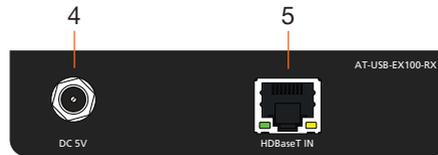
Rear

- 1 DEVICE**
Connect up to two USB devices (e.g. mouse, keyboard, etc.) to these ports. These ports provide 2.5 W per USB device interface.
- 2 HOST**
Connect a USB cable from this port to the host computer.
- 3 FW**
Connect a micro-USB to USB-A cable from this port, to a computer, to update the firmware.
- 4 PWR**
The **PWR** LED indicator will glow green when the AT-USB-EX100-TX is powered.
- 5 DC 5V**
Connect the included 5 V DC power supply to this power receptacle.
- 6 HDBaseT OUT**
Connect a category 4 cable from this port to the **HDBaseT IN** port of the AT-USB-EX100-RX.

AT-USB-EX100-RX



Front



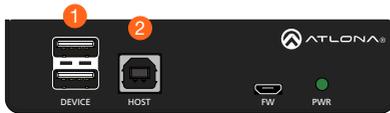
Rear

- 1 DEVICE**
Connect up to four USB devices (e.g. mouse, keyboard, etc.) to these ports. These ports provide 2.5 W per USB device interface.
- 2 FW**
Connect a micro-USB to USB-A cable from this port, to a computer, to update the firmware.
- 3 PWR**
The **PWR** LED indicator will glow green when the AT-USB-EX100-RX is powered.
- 4 DC 5V**
Connect the included 5 V DC power supply to this power receptacle.
- 5 HDBaseT OUT**
Connect a category 4 cable from this port to the **HDBaseT IN** port of the AT-USB-EX100-TX.

Installation

1. Connect up to two USB devices (speakerphone, etc.) to the **DEVICE** ports on the AT-USB-EX100-TX. These ports provide 2.5 W per USB device interface.
2. Connect a USB cable from the host device to the **HOST** port on the AT-USB-EX100-TX.
3. Connect up to four USB devices (mouse, keyboard, etc.) to the **DEVICE** ports on the AT-USB-EX100-RX. These ports provide 2.5 W per USB device interface.
4. Connect a category cable (CAT5e or better), from the **HDBaseT OUT** port on the AT-USB-EX100-TX, to the **HDBaseT IN** port on the AT-USB-EX100-RX. Maximum cable length should not exceed 330 feet (100 meters).
5. Connect the included 5 V DC power supplies to both the AT-USB-EX100-TX and AT-USB-EX100-RX to the **DC 5V** power receptacles.
6. Connect both power supplies to available AC outlets.

NOTE: This product is not a PoE device. The included power supplies must be connected to both the AT-USB-EX100-TX and AT-USB-EX100-RX.



Cable Recommendation Guidelines

Refer to the tables below for recommended cabling when using Altona products with HDBaseT. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars.

| Core | Shielding | CAT5e | CAT6 | CAT6a | CAT7 |
|-------|------------------|-------|------|-------|-------|
| Solid | UTP (unshielded) | ■ | ■■■ | ■■■■ | N/A |
| | STP (shielded) | ■■ | ■■■■ | ■■■■■ | ■■■■■ |

IMPORTANT: Stranded or patch cables are not recommended due to performance issues.

LED Indicators

The **PWR** indicator on both the AT-USB-EX100-TX and AT-USB-EX100-RX provide power state information on both the AT-USB-EX100-TX and AT-USB-EX100-RX.

| PWR | | Description |
|-------------|---|--|
| Solid green | ● | Unit is powered. |
| Off | ○ | Unit is not powered. <ul style="list-style-type: none"> Verify that the locking connector is securely fastened to the power receptacle. Make sure that the power supply is connected to an active AC outlet. |

Mounting Instructions

Both the AT-USB-EX100-TX and AT-USB-EX100-RX include mounting brackets, which can be used to attach the unit to any flat surface. Use the included screws to attach the mounting brackets.

- Using a small Phillips screwdriver, remove the two screws from the side of the enclosure.



2. Position the mounting brackets, as shown below, aligning the holes on the side of the enclosure with one set of holes on the mounting bracket.
3. Use the screws from Step 1 to attach the mounting brackets, plus two additional screws (included) to complete the installation. Four screws should be used to secure each mounting bracket, as shown below.



4. Mount the unit to a flat surface using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.



NOTE: Mounting brackets can also be inverted to mount the unit under a table or other flat surface.

Updating the Firmware

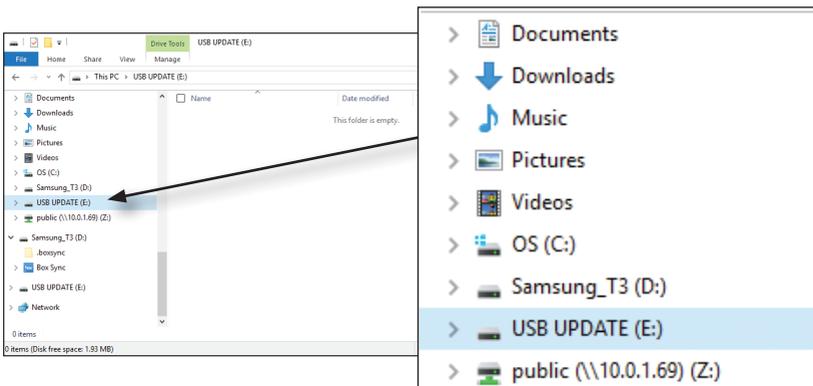
Requirements:

- AT-USB-EX100-TX
- AT-USB-EX100-RX
- Firmware file
- Computer running Windows
- USB-A to USB micro-B cable



IMPORTANT: The AT-USB-EX100-KIT should be updated as a kit, and the TX and RX should be connected via their HDBaseT connectors prior to the firmware update.

1. Disconnect power from the AT-USB-EX100-TX.
2. Connect a USB-A to USB micro-B cable between the PC and the **FW** port on the AT-USB-EX100-TX.
3. Reconnect power to the AT-USB-EX100-TX and AT-USB-EX100-RX.
4. Connect an HDBaseT cable from the **HDBaseT OUT** port on the transmitter to the **HDBaseT IN** port on the receiver.
5. The **PWR** LED indicator on the AT-USB-EX100-TX will start flashing.
6. The USB UPDATE folder will be displayed. If this folder is not displayed, automatically, select the USB UPDATE drive from Windows Explorer.



7. Delete all files from the USB UPDATE drive, if any are present.
8. Drag-and-drop the firmware file to the drive.
9. The **PWR** LED indicator on the front panel will flash green while the unit is being updated. Do not disconnect the USB cable during the update process. When the **PWR** LED stops flashing and is solid green, the update process will be complete.
10. Disconnect the USB cable from the unit.
11. The firmware update process is complete.

Warranty

To view the product warranty, use the following link or QR code:

<https://atlona.com/warranty/>.



Version 5

English Declaration of Conformity

The English version can be found under the resources tab at:

<https://atlona.com/product/at-usb-ex100-kit/>.



Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

<https://atlona.com/about-us/china-rohs/>.

