



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

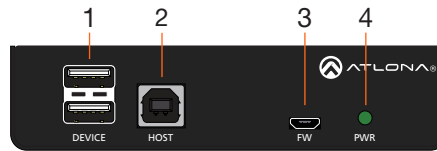
- 1 x AT-USB-EX100-TX
- 1 x AT-USB-EX100-RX
- 2 x 5 V / 4 A Power Supplies
- 4 x Mounting Plates
- 8 x Mounting Screws
- 1 x Installation Guide



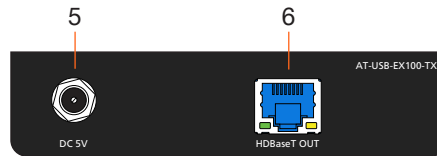
IMPORTANT: Visit <http://www.atlona.com/product/AT-USB-EX100-KIT> for the latest firmware updates and User Manual.



AT-USB-EX100-TX



Front

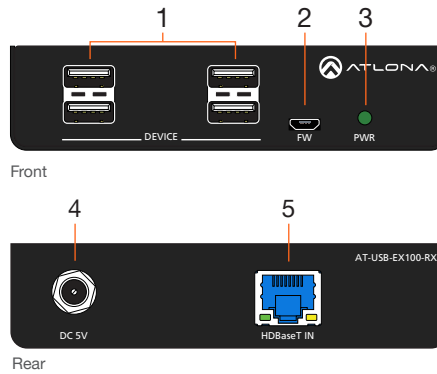


Rear

- 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



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.

1. 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

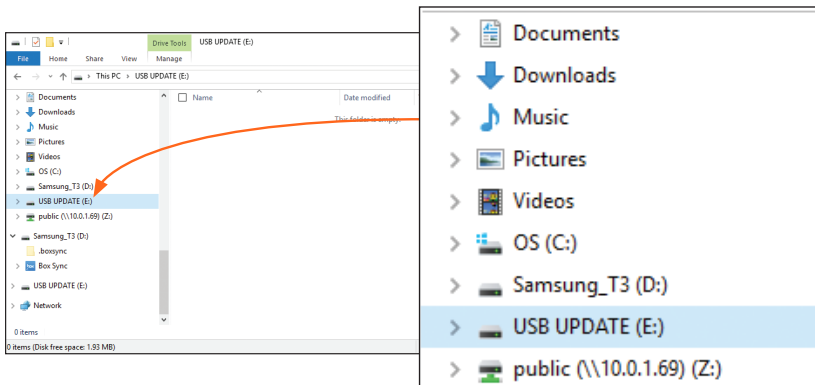
Requirements:

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



NOTE: It is not necessary to disconnect the HDBaseT cable between the AT-USB-EX100-TX and AT-USB-EX100-RX during the update procedure.

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.
4. The **PWR** LED indicator on the AT-USB-EX100-TX will start flashing.
5. The USB UPDATE folder will be displayed. If this folder is not displayed, automatically, select the USB UPDATE drive from Windows Explorer.



6. Delete all files from the USB UPDATE drive, if any are present.
7. Drag-and-drop the firmware file to the drive.
8. 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.
9. Disconnect the USB cable from the unit.
10. The firmware update process is complete.



Atlona, Inc. ("Atlona") Limited Product Warranty

Coverage

Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

- repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping.

OR

- replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products.

OR

- refund the pro-rated value based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

Repair, replacement or refund of Atlona products is the purchaser's exclusive remedy and Atlona liability does not extend to any other damages, incidental, consequential or otherwise.

This Limited Product Warranty extends to the original end-user purchaser of Atlona products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

Coverage Periods

Atlona Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser's sales or delivery receipt is the proof purchase date.

Limited Product Warranty Terms – New Products

- 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013.
- 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013.
- Lifetime Limited Product Warranty for all cable products.

Limited Product Warranty Terms – Refurbished (B-Stock) Products and Discontinued Products

- 3 years from proof of purchase date for all Refurbished (B-Stock) and Discontinued hardware and electronic products purchased on or after June 1, 2013.



Remedy

Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit www.atlona.com for Atlona's contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408-962-0515 (US/international) or via Atlona's website at www.atlona.com.

Exclusions

This Limited Product Warranty excludes:

- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packaging or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.
- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.
- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).
- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

Disclaimers

This Limited Product Warranty does not imply that the electronic components contained within Atlona's products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona's products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

Limitation on Liability

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.



Exclusive Remedy

To the maximum extent permitted by law, this limited product warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. To the maximum extent permitted by law, Atlona specifically disclaims all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If Atlona cannot lawfully disclaim or exclude implied warranties under applicable law, then all implied warranties covering its products including warranties of merchantability and fitness for a particular purpose, shall provide to its products under applicable law. If any product to which this limited warranty applies is a "Consumer Product" under the Magnuson-Moss Warranty Act (15 U.S.C.A. §2301, ET SEQ.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply, and all implied warranties on its products, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

Other Conditions

Atlona's Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona's authorized distributors, dealers and resellers can be found at www.atlona.com.



Notes



Notes



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/>.



ATLONA
a **PANOUT** company

Toll free US International
atlona.com • 877.536.3976 • 41.43.508.4321