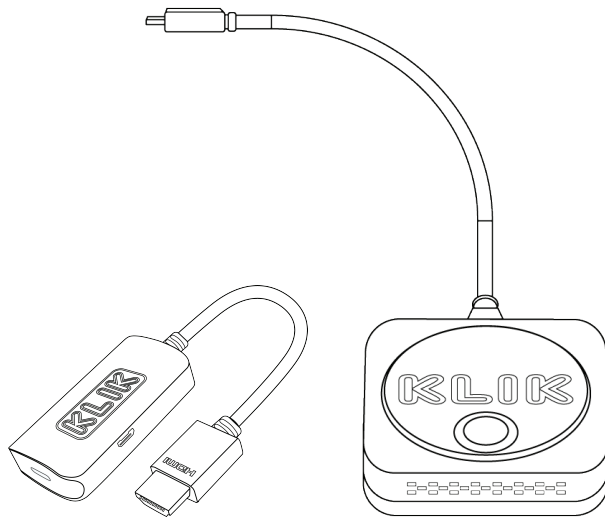# USER MANUAL

KLIKBoks, Inc.

KB462A
KLIKLink™ AV

Wireless Collaboration, Unplugged.
Plug-and-play connectivity is a breeze with KLIKLink AV. Now, any smartphone, tablet, or PC with USB C or HDMI can instantly share its screen at the tap of a button—or switch to full-scale video conferencing with the room's AV gear. It's collaboration, liberated from cables.

KLIK

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Safety & Compliance

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver   is connected.
-Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Environmental & Operating Conditions

- Temperature: Operate between 0°C to 40°C (32°F to 104°F); avoid extreme heat or cold.
- Humidity: Recommended 10% to 80% relative humidity, non-condensing.
- Storage: Keep in a dry, dust-free environment when not in use.

Usage & Handling Warnings

- Use only as intended, following instructions provided in this manual.
- Do not disassemble or modify the device—unauthorized alterations may result in malfunction, data loss, or injury.
- Ensure proper ventilation to prevent overheating—do not block air vents or place in enclosed spaces during operation.
- Disconnect from power sources when not in use for extended periods.
- If signs of damage, overheating, or malfunction appear, discontinue use immediately and contact support.

Compliance & Legal Notices

All trademarks, third-party software, and proprietary technologies referenced in this manual are the property of their respective owners. This device and manual are subject to KLIKBoks Inc.'s terms of use and warranty policy, available at www.klikboks.com.

Introduction

The KB462A KLIKLink AV Adapter is a multi-function accessory designed to operate in tandem with the KB1200 series of KLIKBoks HUB products. The KB462A consists of the KB462 Sender and KB118 HDMI adapter, and offers the following features and functionality:
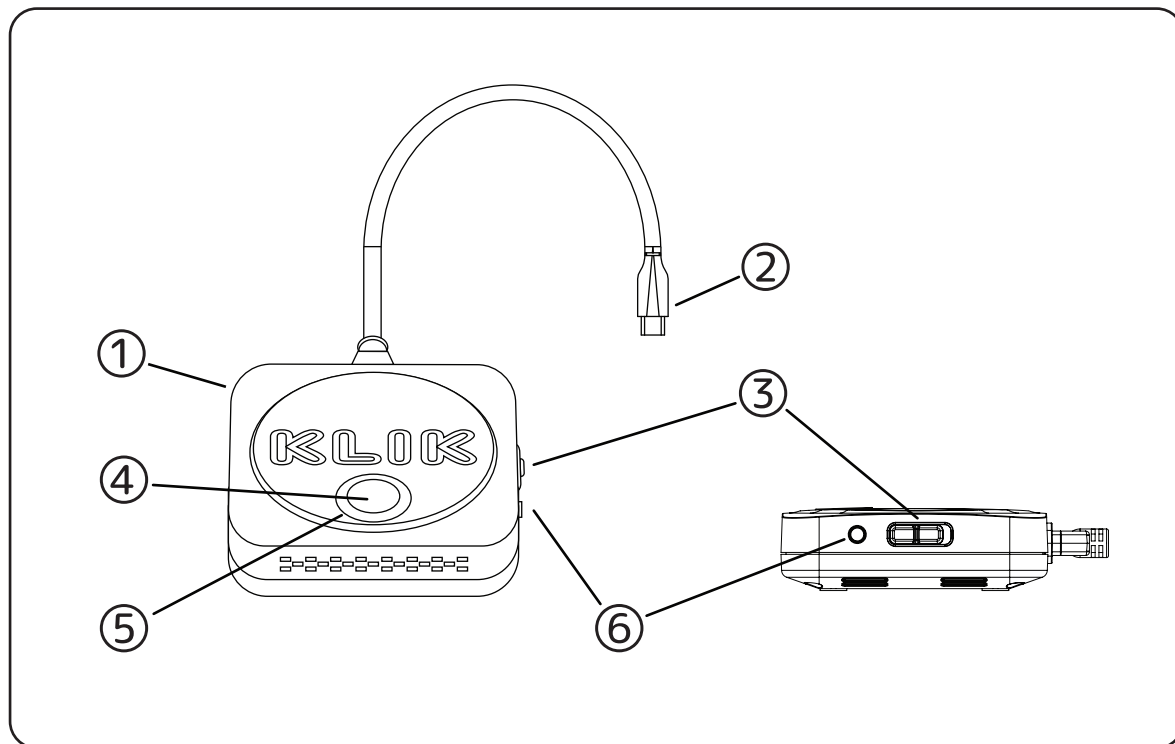
• Plug-and-Play wireless video sharing from USB-C Alt-mode compatible devices
• Seamless connectivity with room audio/video conferencing equipment
• Adjustable transmission latency for optimal video/presentation performance
• UVC connectivity and screen sharing via one-button operation
• USB-C interface supporting computers, tablets, and smartphones
• Included HDMI adapter supports UVC connectivity & screen-sharing*
• No external power supply required—powered directly by host device
• 3-Year limited warranty

*KB118 HDMI to USB-C capture device enables the following features and functionality:
• Connection of HDMI-equipped video sources to the KB462
• Support wireless UVC connectivity to conferencing hardware over USB
• Support full-HD video transmission from HDMI sources
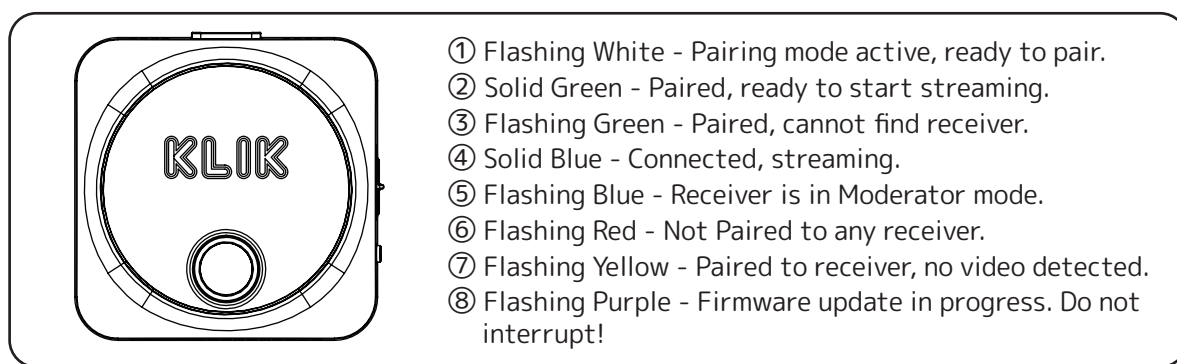• KB118 Requires USB power from host device (or other 5VDC source)

Product Overview - KB462

① KB462 Housing
② USB-C Cable & Connector
③ Video/Presentation Latency Selector
④ Streaming Start/Stop Pushbutton
⑤ Multicolor LED Status Ring
⑥ UVC Connect/Disconnect

Using the KB462 for Screen Sharing & Video Conferencing

Basic Operation – Standalone Mode (USB-C Host Device)
1. Plug in the KB462 using its USB-C connector to a compatible host device (laptop, tablet, or smartphone).
2. Observe the LED ring:
   - **Flashing White** – Sender is not paired/cannot find receiver. See Pairing ❶.
   - **Solid Green** – Device is paired and ready for screen sharing.
   - **Flashing Green** – Host device does not support video over USB-C (check compatibility).
3. Start & Stop screen sharing:
   - Once the LED ring displays solid Green, press the Streaming button to begin screen sharing.
   - The LED ring will change to Blue, indicating active transmission.
   - Press Streaming button again to stop sharing.
   - The LED ring will change to Green, indicating standby.

① Flashing White - Pairing mode active, ready to pair.
② Solid Green - Paired, ready to start streaming.
③ Flashing Green - Paired, cannot find receiver.
④ Solid Blue - Connected, streaming.
⑤ Flashing Blue - Receiver is in Moderator mode.
⑥ Flashing Red - Not Paired to any receiver.
⑦ Flashing Yellow - Paired to receiver, no video detected.
⑧ Flashing Purple - Firmware update in progress. Do not interrupt!

Using UVC Connectivity (Windows Computers Only)

Wireless UVC connectivity allows a host PC to connect wirelessly to the USB audio, video, and mouse/keyboard/touch devices connected physically to the KB1200 (HUB). Once connected, the client may initiate or connect to a video conference call and use the peripherals as if they were physically connected to the host PC.

1. Plug in the KB462 via USB-C to a Windows computer.
2. Verify pairing and connection (LED should be solid Green).
3. Confirm Audio & Video peripheral icons displayed on HUB screen.
4. Enable UVC mode:

   - Press the side button on the KB462 ⑥ to activate USB Video Class (UVC) connectivity.
5. UVC Operation for Video Conferencing
   - Open the conferencing application and select UVC Camera & UVC Audio as the input sources (names may vary).
   - Press the Streaming button at any time to start or stop screen sharing independently of UVC mode.
   - To end UVC connectivity, press the side button again to disconnect audio/video peripherals.
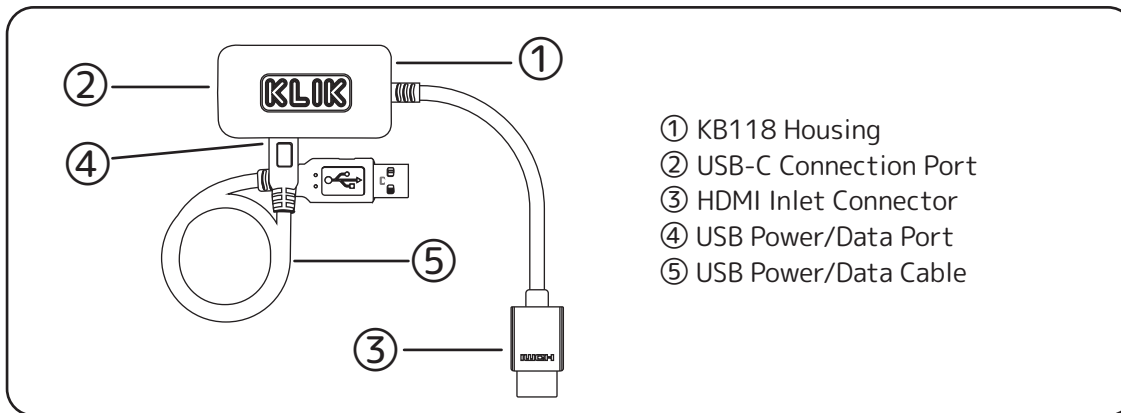
Using KB118 to Adapt KB462 for Legacy HDMI Sources

The KB462 may also connect to and stream content from traditional HDMI video sources by attaching the included KB118 HDMI to USB-C capture device. The KB118 accepts HDMI signal on its input, then converts and outputs that signal to the USB-C port for connection to the KB462. In addition, the supplied USB power/data cable supplies power to both the KB462 and KB118, and connects wireless UVC devices to support video conferencing and HID control.

1. **Connecting HDMI Video Sources**
    - Attach the KB118 Adapter to an HDMI-equipped source device (computer, media player, camera, etc.).
    - Connect the KB462A Sender via its USB-C cable to the KB118 Adapter.
    - Observe the LED Ring:
    - If Solid Green, pairing is successful, and video transmission is ready.
    - Press the top button to start screen sharing (LED turns Blue).

2. **Capturing USB 2.0 Data & Power via Micro-USB**
    - Locate the Micro-USB Power/Data Connector on the KB118 Adapter.
    - Connect the Micro-USB Cable:
    - Plug the Micro-USB to USB-A cable into a computer or suitable power source (5V/1A).
    - This enables USB 2.0 data transmission for video conferencing applications.
    - Press the Side Button on the KB462A to activate UVC functionality, allowing the system to recognize USB video cameras and audio peripherals via the HUB.
    - Confirm Connection in the HUB Interface:
    - Verify that UVC Camera & UVC Audio appear as selectable input sources in conferencing software.
    - If needed, adjust video/audio settings in the host device for optimal performance.

① KB118 Housing
② USB-C Connection Port
③ HDMI Inlet Connector
④ USB Power/Data Port
⑤ USB Power/Data Cable

❶ Pairing KB462 to Receiver

KB462 must be paired to receiver prior to use. Pairing is performed once and is retained in KB462 memory. KB462 may be paired to one receiver at a time. Multiple KB462 devices may be paired to a receiver at the same time.

Pairing KB462 to KB1200 KLIKBoks HUB
1. Connect KB462 to suitable host device and observe LED color & state.
2. Open the OSD Settings menu on HUB and select "WiFi HDMI Tx Pairing".
3. Follow the prompts and hold the Streaming button for 5 sec. to enter pairing mode on KB462.
4. Accept the displayed settings in the "Pairing Setting" window.
5. Wait until the KB462 is found and paired. Apply settings and exit pairing.

For further details on HUB Pairing consult the KB1200 KLIKBoks HUB User Manual.

Troubleshooting Guide
Quick Diagnostic Table

Issue	Possible Cause	Solution
Failed to Pair	HUB hotspot disabled or sender unpaired	Enable hotspot in settings and retry pairing.
Paired to Wrong HUB	Multiple HUBs in the same environment.	Press sender button, verify LED ring color, and re-pair as needed.
No Screen Sharing	Host device doesn't support video over USB-C.	Try another device or use KB118 HDMI adapter.
No UVC Connection	Micro-USB data cable not connected properly.	Confirm USB power/data cable is plugged into the host computer.
No Audio or Video	Incorrect settings or weak connection	Check software audio/video settings, volume levels, and cabling integrity.
Sudden Malfunction	HUB or PC settings changed, network disruptions	Re-pair sender, check for system updates, and verify network stability.

Interpreting LED Status
- Solid Green – Paired, video detected, ready to stream.
- Flashing Green – Connected, but video not detected (check compatibility).
- Solid Blue – Actively streaming to HUB.
- Flashing Blue – Moderator-controlled stream (verify permissions).
- Flashing Yellow – No video detected (check HDMI source).
- Flashing Purple – Firmware update in progress (do not interrupt).
- Flashing White – Pairing mode, awaiting HUB connection.
- Red Flashing (Various Patterns) – Indicates pairing failure, wrong HUB, or incorrect credentials (re-pair sender).

Quick Start Guide

❶ Pairing KB462 to Receiver

KB462 must be paired to receiver prior to use.

Pairing KB462 to KB1200 KLIKBoks HUB
1. Connect KB462 to suitable host device and observe LED color & state.
2. Open the OSD Settings menu on HUB and select "WiFi HDMI Tx Pairing".
3. Follow prompts, hold Streaming button for 5 sec. to enter pairing mode on KB462.
4. Accept displayed settings in the "Pairing Setting" window.
5. Wait until the KB462 is found and paired. Apply settings and exit pairing.

For further details on HUB Pairing consult the KB1200 KLIKBoks HUB User Manual.

❷ Operation - USB-C

Wireless Screen Sharing.

1. Connect KB462 to compatible USB-C host device and note status LED is solid Green.
2. Press top button to start streaming and note status LED is solid Blue.
3. Press top button to stop streaming.
4. Press side button to connect host device to USB peripherals for Video Conferencing.
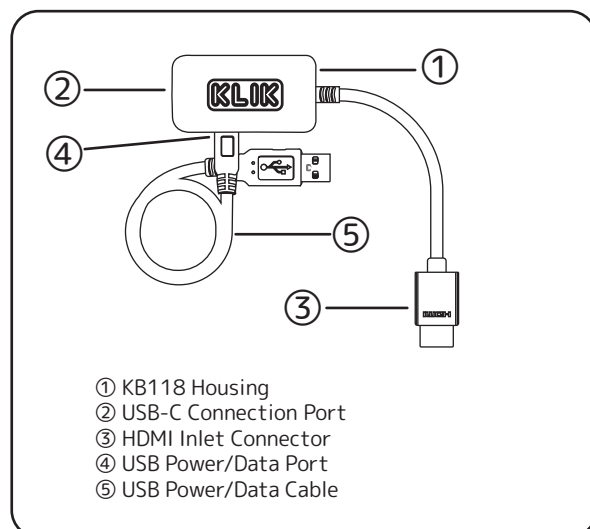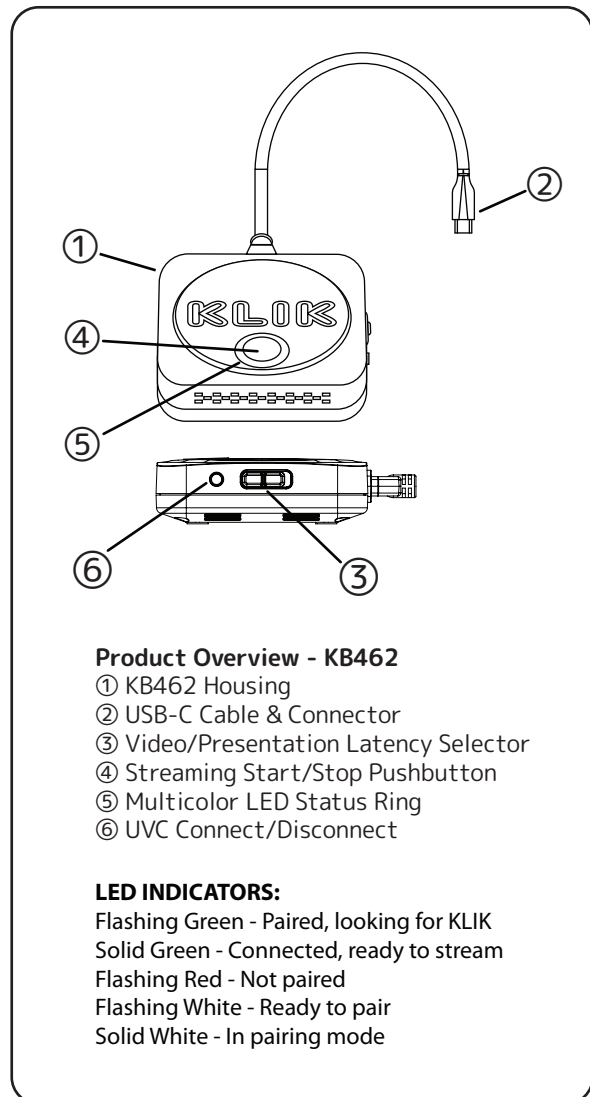
❸ Operation - HDMI

Wireless Screen Sharing.

1. Connect KB118 HDMI Adapter to KB462 USB-C cable, and KB118 HDMI input to host device. Connect USB power/data cable between KB118 and host device. Note status LED is solid Green.
2. Press top button to start streaming and note status LED is solid Blue.
3. Press top button to stop streaming.
4. Press side button to connect host device to USB peripherals for Video Conferencing.

❹ Operation - Mode Settings

1. Move slide switch to Left to select Presentation Mode (low latency).
2. Move slide switch to Right to select Video Mode (smooth playback).

Product Overview - KB462
① KB462 Housing
② USB-C Cable & Connector
③ Video/Presentation Latency Selector
④ Streaming Start/Stop Pushbutton
⑤ Multicolor LED Status Ring
⑥ UVC Connect/Disconnect

LED INDICATORS:
Flashing Green - Paired, looking for KLIK
Solid Green - Connected, ready to stream
Flashing Red - Not paired
Flashing White - Ready to pair
Solid White - In pairing mode

① KB118 Housing
② USB-C Connection Port
③ HDMI Inlet Connector
④ USB Power/Data Port
⑤ USB Power/Data Cable

Product Specifications KB462 USB-C Sender	
Model	KLIKLink USB-C (KB462)
Processor	1080p@60 Encoding System on a Chip for wireless streaming
Memory	8Gb LPDDR4
Wireless Radio	802.11 b/g/n/ac/ax 2.4G/5G 2T2R
Power Input	Attached USB-C, 5VDC/1A (USB-C cable 15cm length)
Video Input	USB-C Display Port (Alt-Mode) Up to 1080p@60
Video Latency	25 mSec. Presentation Mode, 75 mSec. Video Mode
Frame Rate	60 frames per second
USB Touch-Back Support	Full HID, Multi-touch compatibility
Indicators	Single, Multi-color LED ring (see LED Function Table)
Controls	Top Pushbutton, Side Pushbutton, Side Slide Switch
Wireless Radio	IEEE 802.11b/g/n, 2.4G/5G, WPA/WPA2, 54Mbit, internal antenna
Pushbutton (Top)	Start/Stop streaming, Enter Pairing Mode (see LED Function Table)
Pushbutton (Side)	Engage/Disengage USB Conferencing Peripherals (Audio & Video)
Slide Switch	Presentation Mode / Video Mode Selection
Device Dimensions (W x D x H)	2.76 x 2.76 x 1.01 inches (70 x 70 x 26 mm) not including cables
Device Net Weight	0.2 lbs. (0.090 kG)
Transmission Range	Up to 10 meters, unobstructed
Operating Temperature Range	-5 ~45
Operating Humidity Range	20%~80% RH Non Condensing
Storage Temperature Range	-20 ~60
Storage Humidity Range	5%~93% RH Non Condensing
LED Function Table	
Green - Solid	Paired to Receiver, Video Detected, Standby, Ready to Stream
Green - Flashing Contantly	Paired to Receiver, Cannot Detect Receiver
Blue - Solid	Streaming to Receiver
Blue - Flash 3 Times / Green - Solid	Receiver is in Moderator Mode, Moderator Controls Streaming
Yellow - Solid	Device is Starting (Boot)
Yellow - Flashing Contantly	Paired to Receiver, No Video Detected
Purple - Flashing Contantly	Device Fimware Update in Progress (Do Not Interrupt)
Purple - Flash 5 Times	Device Memory Erased
White - Flashing Constantly	Device is in Pairing Mode, Awaiting Receiver
Red - Flash 1 Time/Pause 3 Sec.	Device not Paired to Any Receiver
Red - Flash 3 Times/Pause 3 Sec.	Device not Paired to Any Receiver, No Receiver Detected
Red - Flash 5 Times/Pause 3 Sec.	Device not Paired to Any Receiver, Receiver Detected, Incorrect Pairing Credentials
Product Specifications KB118 HDMI Adapter	
Model	KLIKLink HDMI (KB118A)
Processor	Lontium LT6711A QFN64, ASIC
Power Supply	Detached USB-A/Micro-USB, 5VDC/2A (USB-A cable 30cm length)
Video Input	HDMI 2.0 Type-A Male (HDMI cable 12cm length)
Video Output	USB-C Female, 4K@60Hz, 4K@30Hz
Data Input/Output	Micro-USB, USB 2.0, 480Mbps (shared with Power Supply function)
Host Compatibility	Windows, Linux
Device Dimensions (W x D x H)	60 mm x 33 mm x 15.5 mm (Housing)
Device Weight	TBD
Housing Material	Aluminum Alloy, Plastic end-caps
Final Assembly Specifications	
Included Items	KB462 Sender, KB118 Capture, USB-A to Micro-USB Cable, Quick Start Guide
Shipping Dimensions (W x D x H)	3.2 x 3.2 x 2.1 inches (81 x 81 x 54 mm)
Shipping Weight	0.4 lbs. (0.175 kG)
UPC /EAN Codes	643462960248/0643462960248
FCC Compliance Identifier	2AP48CT1292
Harmonized System (HS) Code	8471.80.1000
UNSPSC Code	Product: 43211600 ; Family: 43190000