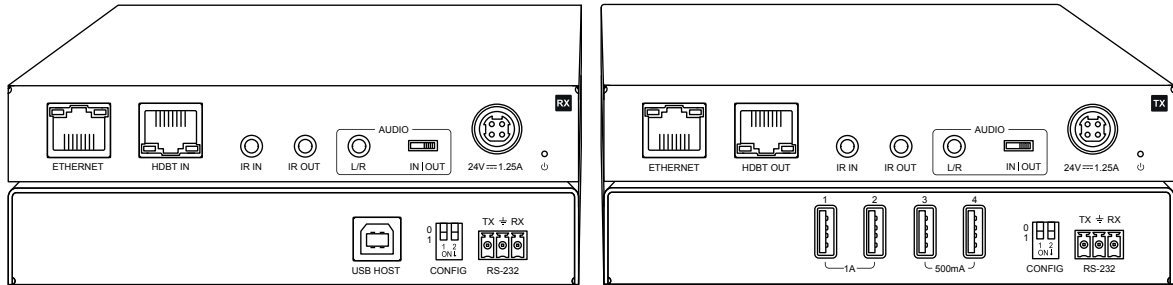


UEX100E-KIT

Quick Reference Guide



Introduction

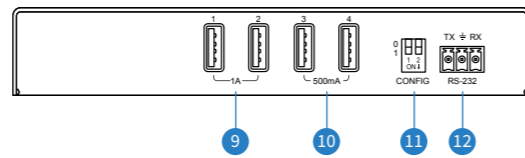
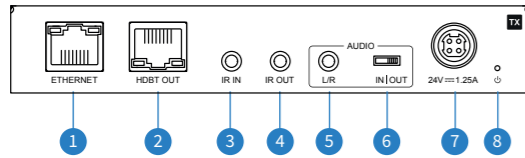
The UEX100E-KIT is a USB extender kit utilising HDBaseT™ technology to extend USB 2.0, 2CH analogue audio and control signals up to 100m over a single CAT cable. The UEX100E-KIT allows up to 4 USB devices to be connected to a single USB host with support for a transmission data bandwidth up to 480Mbps and is backwards compatible with USB 1.1 devices. The UEX100E-KIT also provides bi-directional Power over Cable (PoC), bi-directional IR and RS-232 and 2CH analogue and Ethernet pass through.

FEATURES:

- Extends USB up to a distance of 100m over a single CAT cable using HDBaseT™ Technology
- Supports USB 2.0 signal extension
- Backwards compatible with USB 1.1 devices
- Transmitted data bandwidth up to 480Mbps
- 1x USB-B on Transmitter for connection to host device
- 4x USB-A hub on Receiver for connection to devices
- USB-A ports 1-2 support 5V1A, USB-A ports 3-4 support 5V500mA
- Bi-directional Ethernet pass through (100Mbps)
- Bi-directional IR & RS-232 pass through
- Supports 2CH PCM Analogue Audio pass through (direction selectable)
- Bi-directional PoC (Power over Cable) to power extenders from either transmitter or receiver end
- Simple plug and play, no driver installation or setup required.

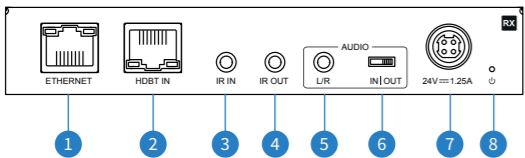
*Signal distribution length subject to length of device and host USB cables and CAT cable type

TX Panel Descriptions



- 1 Ethernet Port - RJ45 connector. Connect to local network switch
 - 2 HDBaseT™ Output - RJ45 connector
 - 3 IR Input - Connect to Blustream 5V 3.5mm IR receiver
 - 4 IR Output - Connect to Blustream 5V 3.5mm IR emitter
 - 5 Analogue Audio L/R - 3.5mm stereo jack can be used as input or output from UEX100E-RX
 - 6 Analogue Audio In/Out Switch - Select if audio is sent to or received from UEX100E-RX
 - 7 24V DC 1.25A 4-pin power supply connector
 - 8 LED Power Indicator
 - 9 1A USB Device Connection - USB A connection to connect to high current (up to 1A) USB devices*
 - 10 500mA USB Device Connection - USB A connection to connect to USB devices up to 500mA*
 - 11 Config DIP Switch - DIP 1 sets PoC on or off. DIP 2 sets RS232 passthrough or update mode
 - 12 RS-232 Port - 3-Pin Phoenix connector to pass bi-directional IR to / from the receiver
- *Note: only one USB camera can be connected at a time

RX Panel Descriptions



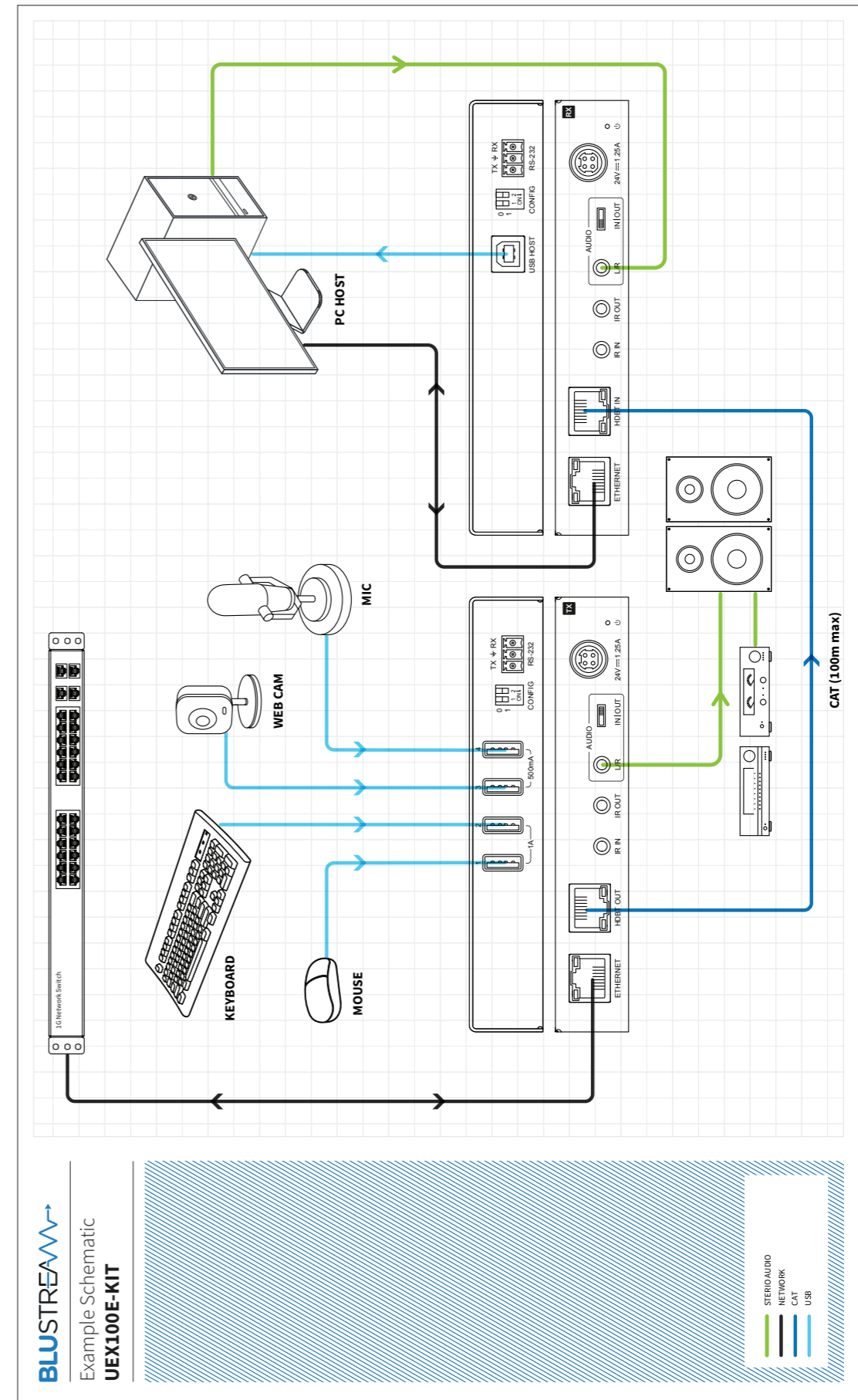
- 1 Ethernet Port - RJ45 connector. Connect to local ethernet port of network device
- 2 HDBaseT™ Input - RJ45 connector
- 3 IR Input - Connect to Blustream 5V 3.5mm IR receiver
- 4 IR Output - Connect to Blustream 5V 3.5mm IR emitter
- 5 Analogue Audio L/R - 3.5mm stereo jack can be used as input or output from UEX100E-RX
- 6 Analogue Audio In/Out Switch - Select if audio is sent to or received from UEX100E-TX
- 7 24V DC 1.25A 4-pin power supply connector
- 8 LED Power Indicator
- 9 USB Host Connection - USB B connection to connect to PC
- 10 Config DIP Switch - DIP 1 sets PoC on or off. DIP 2 sets RS232 passthrough or update mode
- 11 RS-232 Port - 3-Pin Phoenix connector to pass bi-directional IR to / from the receiver

Device Cabling

It is important that the interconnecting CAT cable between the Transmitter and Receiver is terminated using the correct RJ45 pin configuration. The CAT cable MUST be a 'straight' (pin-to-pin) CAT cable.

Please ensure that the USB cabling used with this product is within specifications for both the distance and maximum / expected data rate transfer of the equipment in use. Exceeding distances, or using cabling not suitable for the data transfer, may stop the UEX100E-KIT from working properly.

It is recommended to keep the USB cabling either side of the UEX100E-KIT to a minimum, using the range of the equipment to run the distance over the CAT cable infrastructure.



Schematic

BLUSTREAM
Example Schematic
UEX100E-KIT

STEREO AUDIO
NETWORK
CAT
USB

Specifications

UEX100E-TX

- **CAT Connectors:** 1 x RJ45 connector
- **USB Port:** 4 x USB Type-A
- **Audio Input/Output Port:** 1 x Analogue Audio L/R (3.5mm stereo jack)
- **Ethernet Port:** 1 x RJ45 Connector
- **RS-232 Port:** 1 x 3-pin Phoenix connector
- **IR Input Port:** 1 x 3.5mm stereo jack
- **IR Output Port:** 1 x 3.5mm mono jack
- **Control Switch:** 2-pin DIP switch
- **Casing Dimensions (W x D x H):** 150 x 100 x 25mm
- **Power Supply:** 24V/1.25A DC, 4-pin connector

UEX100E-KIT

- **Box Dimensions (W x D x H):** 190 x 160 x 130mm
- **Shipping Weight:** 1.6kg
- **Operating Temperature:** 32°F to 104°F (-5°C to +55°C)
- **Storage Temperature:** -4°F to 140°F (-25°C to +70°C)

NOTE: Specifications are subject to change without notice. Weights and dimensions are approximate.

UEX100E-RX

- **CAT Connectors:** 1 x RJ45 connector
- **USB Port:** 1 x USB Type-B
- **Audio Input/Output Port:** 1 x Analogue Audio L/R (3.5mm stereo jack)
- **Ethernet Port:** 1 x RJ45 Connector
- **RS-232 Port:** 1 x 3-pin Phoenix connector
- **IR Input Port:** 1 x 3.5mm stereo jack
- **IR Output Port:** 1 x 3.5mm mono jack
- **Control Switch:** 2-pin DIP switch
- **Casing Dimensions (W x D x H):** 150 x 100 x 25mm
- **Power Supply:** 24V/1.25A DC, 4-pin connector

Package Contents

- 1 x UEX100E-TX Transmitter
- 1 x UEX100E-RX Receiver
- 1 x 24V/1.25A DC Power Supply
- 1 x USB A to B cable (1m)
- 2 x Mounting Bracket Sets
- 1 x Quick Reference Guide

Certifications

FCC NOTICE

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 or more 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.

CAUTION - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.