



TRIBUTARIES®

Bringing it all **together**

HDMI™

HIGH-DEFINITION MULTIMEDIA INTERFACE

EXTENDER

HDMI Extender over HDBaseT™



HX1C6-PRO

Extends HDMI 300 feet over one CAT6

www.tributariescable.com

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

EXTENDER

HDMI Extender over HDBaseT™



HX1C6-PRO

Table of Contents

1. Introduction	1
2. Features	2
3. Package Contents.....	2
4. Operation Controls and Functions.....	3
Transmitter Front and Rear Panels.....	3
Receiver Front and Rear Panels.....	4
5. CAT6 Termination	5
6. IR Termination.....	5
7. Connections and Installation.....	6
7. Specifications.....	6
7. HDMI Electronics 2 Year Warranty.....	7

1. Introduction

The Tributaries HX1C6-PRO Transmitter (TX) and Receiver (RX) over a single CAT6 cable is a system designed to extend an uncompressed HDMI signal over a long distance without loss. By converting HDMI to HDBaseT™, Tributaries HX1C6-PRO is able to deliver Deep Color (12 bits/color) video and new lossless (Dolby® TrueHD, Dolby® Digital Plus and DTS®-HD Master Audio) digital audio, with a bandwidth up to 350Mhz (10.2Gbps).

2. Features

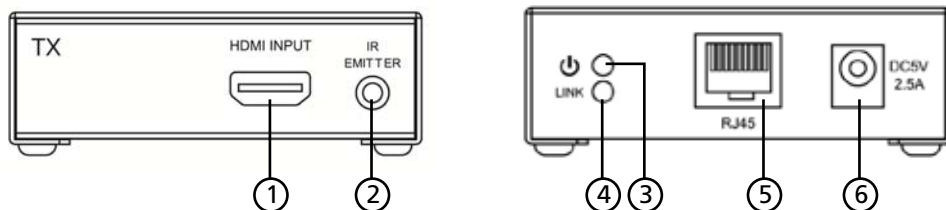
- Extends 12 bit color, 1080p/60Hz HDMI signals up to 300 feet over a single CAT6 cable
- Compliant with HDMI 1.3, HDCP 2.0 and DVI 1.1 standards
- Supports PCM 2 Channel audio, 5.1, 7.1, DTS®-HD and Dolby®Audio formats
- Supports 3D
- Supports IR Pass Thru function for the control of remote HDMI source devices
- Supports CEC bypass
- Supports xvYCC Color Space

3. Package Contents

- (1) HX1C6-PRO HDMI v1.3 Transmitter
- (1) HX1C6-PRO HDMI v1.3 Receiver
- (1) IR Emitter
- (1) IR Receiver
- (2) 5 volt DC Power Supply
- Operation Manual

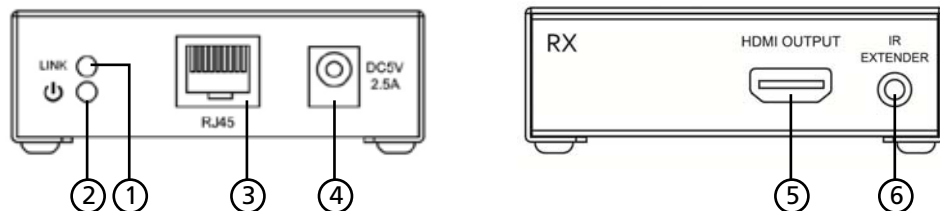
4. Operation Controls and Functions

Transmitter (TX) Unit



- ① HDMI Input: Connect to the HDMI output of your source equipment such as a DVD player or Set-top-box with an HDMI cable.
- ② IR Emitter Input: Connect IR emitter cable (included) to this input. Place the eye of the emitter within the range of the source equipment.
- ③ Power LED: This Power LED indicator will illuminate when the transmitter is connected to its 5VDC power supply that is plugged into a wall outlet.
- ④ Link LED: This LED indicator will illuminate once the CAT6 cable has been properly connected between the Transmitter and Receiver units
- ⑤ RJ45 Output: Connect a CAT6 cable terminated with an RJ45 modular plug into this port
- ⑥ Power Input: Connect the 5VDC power supply to the transmitter of the HX1C6-PRO. Then connector the adapter to an AC outlet.

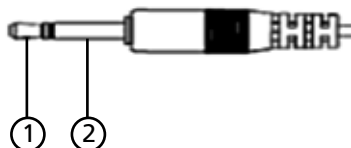
Receiver (RX) Unit



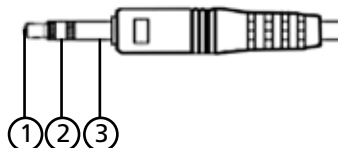
- 1 Link LED: This LED indicator will illuminate once the CAT6 cable has been properly connected between the Transmitter and Receiver units
- 2 Power LED: This Power LED indicator will illuminate when the receiver is connected to its 5VDC power supply that is plugged into a wall outlet.
- 3 RJ45 Output: Connect a CAT6 cable terminated with an RJ45 modular plug into this port
- 4 Power Input: Connect the 5VDC power supply to the receiver of the HX1C6-PRO. Then connector the adapter to an AC outlet.
- 5 HDMI Output: Connect to the HDMI input of your display or sink device with an HDMI cable.
- 6 IR Extender Input: Connect IR receiver cable (included) to this input. Place the eye of the receiver in front of the display, then use the existing remote to control the source equipment.

5. IR Termination

IR Emitter	
Pin 1	5V Power
Pin 2	IR Signal



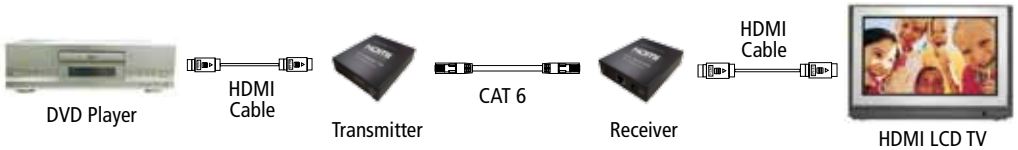
IR Receiver	
Pin 1	5V Power
Pin 2	IR Signal
Pin 3	Ground



5. RJ45 Terminations

Pin	T568B Pair	Wire	T568B Color	Pins on Plug Face (socket is reversed)
1	2	tip	white/orange stripe	Pin Position 8 7 6 5 4 3 2 1
2	2	ring	orange solid	
3	3	tip	white/green stripe	
4	1	ring	blue solid	
5	1	tip	white/blue stripe	
6	3	ring	green solid	
7	4	tip	white/brown stripe	
8	4	ring	brown solid	

5. Connection and Installation



- Connect one HDMI cable between the source output port and the HDMI input port of the HX1C6-PRO transmitter
- Connect one HDMI cable between the HDMI output port of the HX1C6-PRO and the input port of the display or sink device.
- Connect one CAT6 cable terminated with RJ45 modular plugs between the output port of the transmitter and the input port of the Receiver of the HX1C6-PRO
- Connect the 5V DC power supplies to the Transmitter and Receiver of the HX1C6-PRO

6. Specifications

- Frequency Bandwidth: 10.2 Gbps
- Transmitter I/O Connectors: (1) HDMI female connector, (1) CAT6 RJ45 connector, 3.5mm IR Emitter Jack
- Receiver I/O Connectors: (1) HDMI female connector, (1) CAT6 RJ45 connector, (1) 3.5mm IR Receiver Jack
- Power Supply: 5V/ 2.5A DC (US/UK/EU standards: UL/FCC/CE/CSA/RoHS certified)
- Dimensions (Tx & Rx): 3 7/8" (98mm) L x 3 1/4" (82.6mm) D x 1 1/8" (26.3mm)H
- Weight (Tx & Rx): 17.6 oz (.5kg)
- Chassis Material: Aluminum
- Power Consumption: TX: 10 Watts Max; RX: 10 Watts Max
- Operating Temperature: 32°F ~104°F / 0°C~40°C
- Storage Temperature: 20°F~140°F / -20°C~60°C
- Storage Humidity: 10% to 85% (Non-Condensing)

HDMI Electronics 2 Year Warranty

This Warranty only applies to products purchased and used in the United States of America. Products purchased or used outside the United States are subject to such warranties, if any, as are provided by the Tributaries distributor in the respective countries.

Scope and Duration of Warranty

Subject to the terms and conditions stated below, Gordon J. Gow Technologies, Inc., ("Gow") warrants that this Product shall be free from defects in workmanship or materials for a term of two (2) years from the date when it was purchased from an Authorized Gow Dealer.

What Gow Will Do Under the Warranty

In the event of any defect covered by this warranty, Gow shall without charge provide all parts, materials, and labor necessary to restore the Product to its original specifications, and shall return the Product to its owner at Gow's expense. In the alternative, Gow may at its sole option either replace the Product without charge, or it replacement is not commercially practicable or repair or replacement cannot be accomplished within a reasonable time, Gow may refund the purchase price of the Product, subject where appropriate to reasonable depreciation for use in accordance with applicable laws, in full satisfaction of its warranty obligations. Gow will undertake to complete the repair and return of the Product as soon as circumstances permits, unless prevented by causes beyond its reasonable control.

LIMITATIONS ON GOW'S OBLIGATIONS UNDER THE WARRANTY

GOW'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE THE PRODUCT, OR AT ITS OPTION REFUND THE PURCHASE PRICE, AS PROVIDED FOR HEREIN ABOVE. GOW DOES NOT WARRANT AGAINST, NOR SHALL IT BE LIABLE FOR, ANY OF THE FOLLOWING: REMOVAL OR INSTALLATION CHARGES; SHIPPING EXPENSES TO GOW OR ITS AUTHORIZED SERVICE FACILITY; PROPERTY DAMAGE OF ANY KIND; OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND.

Note: Some states do not allow exclusion or limitation of consequential damages, so the foregoing exclusion may not apply.

Exclusions:

Parts and Occurrences That Are Not Covered by the Warranty

This Warranty does not cover any of the following: (A) glass panels, cabinetry, trim, or any other appearance items (except) where they are defective at the time of original sale and the Product is delivered for repair within the first thirty (30) days thereafter; (B) batteries, or failure of or damaged to the Product caused by batteries; (C) failures arising from catastrophe, misuse, neglect, or failure to properly connect an operate the Product in accordance with the accompanying instructions; (D) failures arising from improper installations of the Product or incompatibility of other components in the system of which the Product is a part; (E) failures of any kind in Products (I) which have been purchased from other than an Authorized Gow Dealer, or (II) which evidence any tampering, alteration, or attempted servicing by anyone other than Gow or an Authorized Gow Service Facility, or (III) which are not delivered or shipped to Gow or an Authorized Service Facility within the two (2) year Warranty term; and Gow shall have no liability or obligation of any kind with respect to any of the foregoing types of failures.

What the Owner Must Do to Obtain Service Under This Warranty

To obtain service under this warranty, the owner must at the owner's expense (I) arrange for any necessary de-installation of the Product, and (II) return the Product to the Authorized Gow Dealer from which it was purchased. If return to the Authorized Gow Dealer is impracticable, the owner must deliver or ship the Product, properly packaged, prepaid, and insured, to Gow at the address below, or to an Authorized Gow Service Facility. In addition, the owner must provide evidence that the Product is a the time of delivery with the scope of this Warranty, by either having completed and submitted to Gow on a timely basis the Warranty Registration Card, if one is included with the Product, or by including the original or a legible copy of the dated sales receipt with the Product when submitted for repair. All Products must also be accompanied by the owner's name, address, and telephone number.

What the Owner Must Pay For

As noted above, the owner must arrange and pay any expense for removing the Product from its installation and delivering it to Gow or the Authorized Gow Service Facility. Upon return of the Product to the owner following repair, it shall be the owner's responsibility to arrange and pay for any reinstallation which may be required. In addition, it shall be the owner's obligation to pay for any repairs made to Products for which the owner has neither completed and submitted (where one is included) the warranty Registration Card at the time of purchase nor include a legible copy or the original of the dated sales receipt with the Product when delivered for service, or which are otherwise subject to the exclusions noted above, at Gow's or its Authorized Service Facility's then current repair rates.

How to Learn Where the Nearest Authorized Gow Service Facility is, or Obtain Answers to Other Questions Concerning This Warranty In order to learn the name and address of the nearest Authorized Gow Service Facility, obtain instructions for shipment of a covered Product to Gow, or obtain the answers to any other questions you may have concerning this Warranty, you may telephone Gow between the hours of 9:00a.m. and 5:00p.m. Eastern Time, Monday through Friday, at 1.888.554.2514, or write to Service Department, Gordon J. Gow Technologies, Inc. 6448 Pinecastle Blvd; Suite 101, Orlando, FL 32809, (Fax 1.800.553.1366).

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



TRIBUTARIES®
Bringing it all together

©2010 Gordon J. Gow Technologies, Inc. All rights reserved.

TRIBUTARIES® is a registered trademark of Gordon J. Gow Technologies, Inc. All other trademarks are the property of their respective owners. As we continually strive to improve our products, TRIBUTARIES® reserves the right to change product specifications without notice. The technical and other information contained herein is not intended to set forth all technical and other specifications of TRIBUTARIES® products. Additional information can be obtained on-line at www.tributariescable.com

Gordon J. Gow Technologies, Inc.
Orlando, FL 32809
www.tributariescable.com