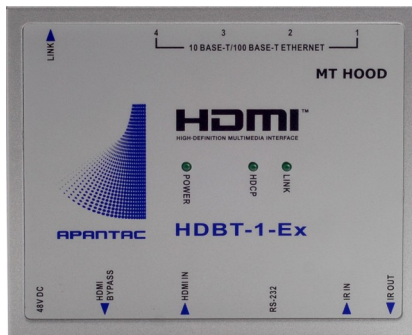## HDBT-1-Ex FRONT VIEW

1 - 4. Ethernet ports (RJ 45 with LED)
5. LINK OUT
6. Ethernet LINK Indicator
7. Full/Half duplex indicator (flashing means collision)

HDBT-1-Ex REAR VIEW

1. DC 48 V Input w/ Locking
2. HDMI Bypass (When this is connected, it will deactivate the LINK out, this port is for troubleshooting only)
3. HDMI Input
4. RS232 Input
5. IR IN
6. IR OUT

HDBT-1-Ex TOP VIEW

ETHERNET Connection

- Any one of the ports can act as an input port in the HDBT-1-Ex or Rx. The rest of the ports will behave like a regular hub.
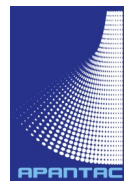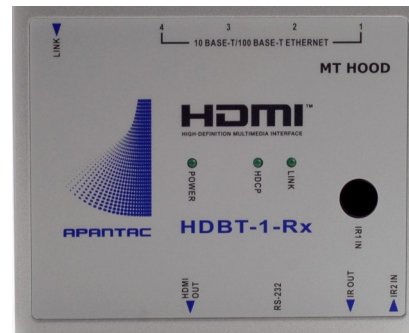
HDBT-1-Rx FRONT VIEW

1 - 4. Ethernet ports (RJ 45 with LED)
5. LINK OUT
6. Ethernet LINK Indicator
7. Full/Half duplex indicator (flashing means collision)

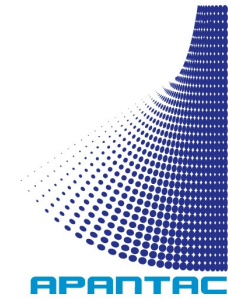## HDBT-1-Rx REAR VIEW

1. HDMI Output
2. RS232 Output
3. IR OUT
4. IR2 IN

HDBT-1-Ex TOP VIEW

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HDBT-SET-2
USER MANUAL

HDMI Extender/Receiver based on HDBaseT Technology w/Ethernet and POE

Package Contents

- 1 x HDBT-1-Ex
- 1 x HDBT-1-Rx
- User Manual
- 1 x Power Adapter with (48V)
- 1 x IR Blaster Cable (Peak Wavelength 940nm)
- 1 x IR Receiver Cable
- Magnetic Mounting Plate
- Mounting Screws

Accessories

Power Adapter

IR Receiver Cable
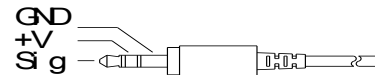
IR Blaster Cable

Mounting Screws

Features

- Uses the latest HDBase-T technology
- Extends 1080p signals up to 330 feet (100 meters) with a single CATx cable
- Supports HDMI 1.4 with 3D function
- Supports HDMI 1.2 and 1.3a
- HDCP Compliant
- Supports 10/100 Base-T Ethernet (IEEE 802.3/3u/3x)
- Supports POE (Power Over Ethernet)
- Supports 3D pass-through
- Supports CEC pass-through
- Supports RS-232 (Bi-directional transfer)
- Supports al frequency band IR control

Installation

1. Turn off the source (ex: DVD Players) and the HDTV monitor.
2. Connect the HDMI cable between the source and the <HDMI IN> port of the HDBT-1-Ex.
3. Connect the HDMI cable between the HDBT-1-R between the monitor and the <HDMI OUT> port of the HDBT-1-R.
4. Connect the CATx cable between the HDBT-1-E and HDBT-1-R's <LINK> port.
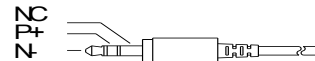5. Connect the power.

IR Receiver Cable

- Insert the IR receiver cable into the HDBT-1-R's <IR2 IN> (so you can point to it easily with your IR remote control).
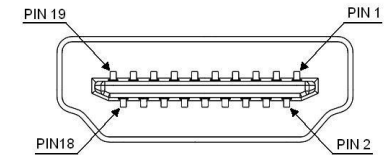
```
GND
+V
Sig
```

IR Blaster Cable

- Insert IR blaster cable into HDMI-1-E <IR OUT> port.
- Locate it close to the IR receiving sensor on the source (ex: DVD player).

```
NC
P+
N-
```

Specifications

FEATURES/MODEL	HDBT-1-E	HDBT-1-R
HDMI In	1 x HDMI A-Type Female	None
HDMI Out		1 x HDMI A-Type Female
RJ-45 (LINK)	1	1
RJ-45 (Ethernet)	4	4
RS-232 (DB9)	1	1
IR OUT	3.5 mm phone jack	None
IR IN	None	3.5 mm phone jack
IR 1 IN	None	Internal IR Receiver
IR 2 IN	None	3.5 mm phone jack
Max Resolution	1080p 60Hz	1080p 60Hz
Cable Distance	100 meters (Max)	100 meters (Max)
Power Adapter	48 V DC	None
Weight (g)	510 g	510 g
Dimension (mm)	150 W x 80 x D 25 H	150 W x 80 x D 25 H

HDMI Pin Out

PIN 19   PIN 1

PIN18   PIN 2

Pin #	Signal	Pin #	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5 Power
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

CATx Wiring

Identification	Pin Assignment	Color Code
Pair 1	5	White-Blue
Pair 1	4	Blue
Pair 2	1	White-Orange
Pair 2	2	Orange
Pair 3	3	White-Green
Pair 3	6	Green
Pair 4	7	White-Brown
Pair 4	8	Brown

```
        PAIR 3
PAIR 2   PAIR 1   PAIR 4
 1  2  3  4  5  6  7  8
W-O  O W-G BL W-BL G W-BR BR
    JACK POSITIONS
```