

TECHNICAL SPECIFICATION

EHB-340



Description: HDBaseT 3.0 Extender with USB 2.0

Why This HDBaseT Set? Extend uncompressed HDMI signals, RS-232, bi-directional IR, and USB2.0 signals up to 230ft/70m (4K30/1080P) or 131ft /40m (4K60) via a single CAT6/6A cable.

Key Features

- HDMI 2.0b and HDCP 2.2 compliant
- Supports 18Gbps video bandwidth
- Supports video resolution up to 4K2K@60Hz (YUV 4:4:4)
- HDR, HDR10, HDR10+, Dolby Vision LLM and HLG pass through
- LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD pass through
- Transmission distance up to 230ft/70m (4K30/1080P) or 131ft/40m (4K60) via a single CAT6/6A cable
- Supports bi-directional POC (Power over Cable), when TX or RX gets power, the other end does not need an external power supply
- Supports 3.5mm analog audio de-embedding at TX and RX
- EDID management
- Supports bi-directional RS-232 signal pass-through, bi-directional IR signal control, USB2.0 signal transmission
- Compact design for easy and flexible installation



Package Contents

- 1 × HDBaseT 3.0 Extender (Transmitter)
- 1 × HDBaseT 3.0 Extender (Receiver)
- 1 × IR Blaster Cable (1.5 meters)
- 1 × IR Receiver Cable (1.5 meters)
- 2 × 3pin-3.81mm Phoenix Connectors (Male)
- 4 × Mounting Ears
- 8 × Machine Screws (KM3*4)
- 1 × 24V/1A Locking Power Adapter
- 1 × User Manual



HDBaseT 3.0 18Gbps HDMI Extender with USB 2.0

Part Number:	EHB-340
Revision Number:	1
Date:	08-20-22
Page Number:	1 of 6

1723 W. 4th Street Tempe Arizona 85281
P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

Disclaimer: Conditions of use may vary. Information is subject to change without notice.

TECHNICAL SPECIFICATION

EHB-340



Specifications

Technical

HDMI Compliance HDMI 2.0b
HDCP Compliance HDCP 2.2
Video Bandwidth 18 Gbps
Video Resolution Up to 4K@60Hz
Color Space RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth 8/10/12-bit
HDR.....HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX,
DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
IR Level 12Vp-p
Transmission Distance 4K60 / 40m; 4K30 / 70m; 1080P / 70m (CAT6/6A cable)

Connection

Transmitter

Input 1x HDMI In
Outputs 1HDBaseT Out (RJ45), L R Out (3.5mm stereo mini-jack)

Receiver

Input HDBaseT In (RJ45)
Outputs HDMI Out, L/R Out (3.5 stereo mini-jack)

Mechanical

Housing Metal Enclosure
Color Black
Transmitter/Receiver Dimensions 144mm [W] x 78mm [D] x 23mm [H]
Transmitter Weight 323g
Receiver Weight 319g
Power Supply Input Input: AC 100 - 240V 50/60Hz
Power Supply Output DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption 14.28W (POC)
Operating Temperature 32 - 104°F / 0 - 40°C
Storage Temperature -4 - 140°F / -20 - 60°C
Relative Humidity 20~90% RH (non-condensing)

HDBaseT 3.0 18Gbps HDMI Extender with
USB 2.0

Part Number:	EHB-340
Revision Number:	1
Date:	08-20-22
Page Number:	2 of 6

1723 W. 4th Street Tempe Arizona 85281
P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

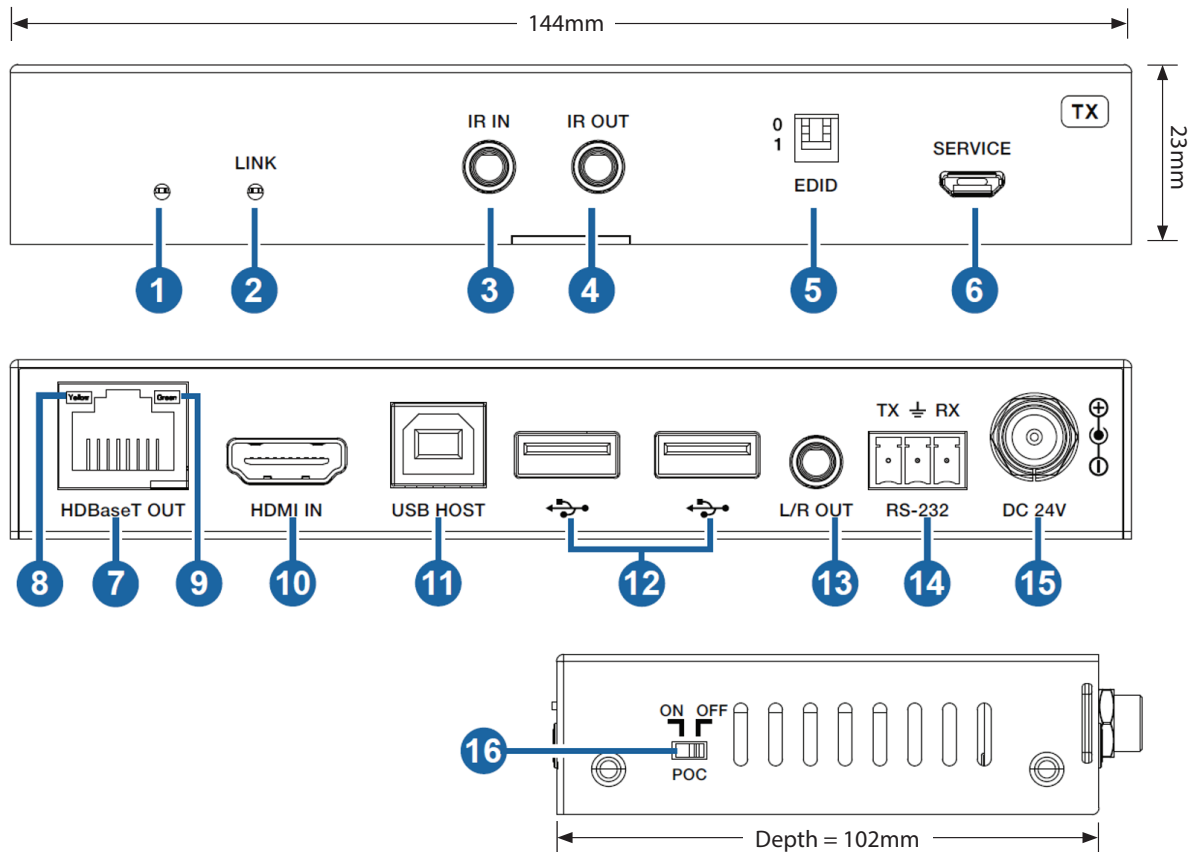
Disclaimer: Conditions of use may vary. Information is subject to change without notice.

TECHNICAL SPECIFICATION

EHB-340



Transmitter



- | | |
|--------------------------|--------------------------|
| 1. Power LED | 9. Link Signal Indicator |
| 2. Link LED | 10. HDMI In |
| 3. IR In | 11. USB Host |
| 4. IR Out | 12. USB Devices |
| 5. EDID DIP Switch | 13. L/R Out |
| 6. Firmware Update Port | 14. RS-232 |
| 7. HDBaseT Out | 15. DC 24V |
| 8. Data Signal Indicator | 16. POC Switch |

HDBaseT 3.0 18Gbps HDMI Extender with
USB 2.0

Part Number:	EHB-340
Revision Number:	1
Date:	08-20-22
Page Number:	3 of 6

1723 W. 4th Street Tempe Arizona 85281
P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

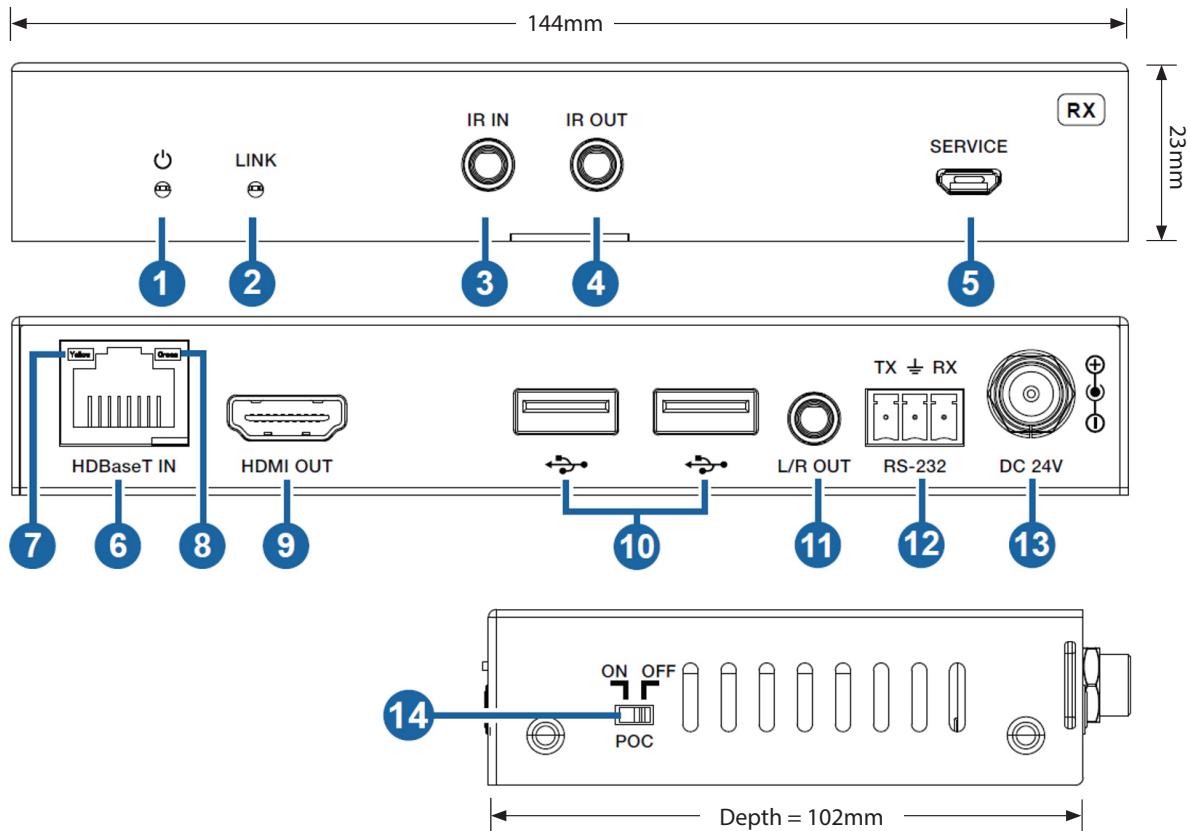
Disclaimer: Conditions of use may vary. Information is subject to change without notice.

TECHNICAL SPECIFICATION

EHB-340



Receiver



- | | |
|--------------------------|--------------------------|
| 1. Power LED | 8. Link Signal Indicator |
| 2. Link LED | 9. HDMI Out |
| 3. IR In | 10. USB Devices |
| 4. IR Out | 11. L/R Out |
| 5. Firmware Update Port | 12. RS-232 |
| 6. HDBaseT IN | 13. DC 24V |
| 7. Data Signal Indicator | 14. POC Switch |

HDBaseT 3.0 18Gbps HDMI Extender with
USB 2.0

Part Number:	EHB-340
Revision Number:	1
Date:	08-20-22
Page Number:	4 of 6

1723 W. 4th Street Tempe Arizona 85281
P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

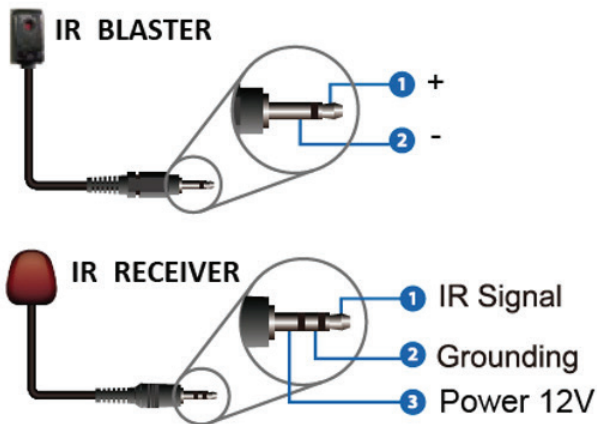
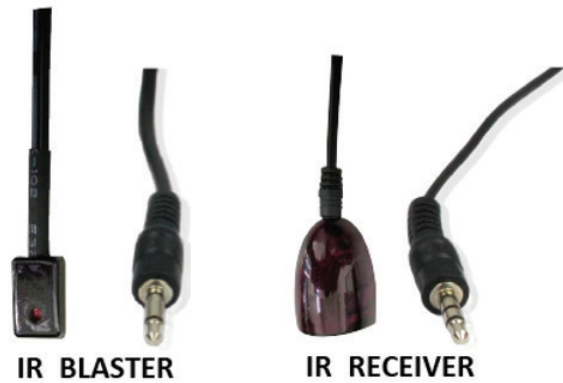
Disclaimer: Conditions of use may vary. Information is subject to change without notice.

TECHNICAL SPECIFICATION

EHB-340



IR Pin Definition



Note: When the angle between the IR receiver and the remote control is $\pm 45^\circ$, the transmission distance is 0-5 meters; when the angle between the IR receiver and the remote control is $\pm 90^\circ$, the transmission distance is 0-8 meters.

HDBaseT 3.0 18Gbps HDMI Extender with
USB 2.0

Part Number:	EHB-340
Revision Number:	1
Date:	08-20-22
Page Number:	5 of 6

1723 W. 4th Street Tempe Arizona 85281
P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

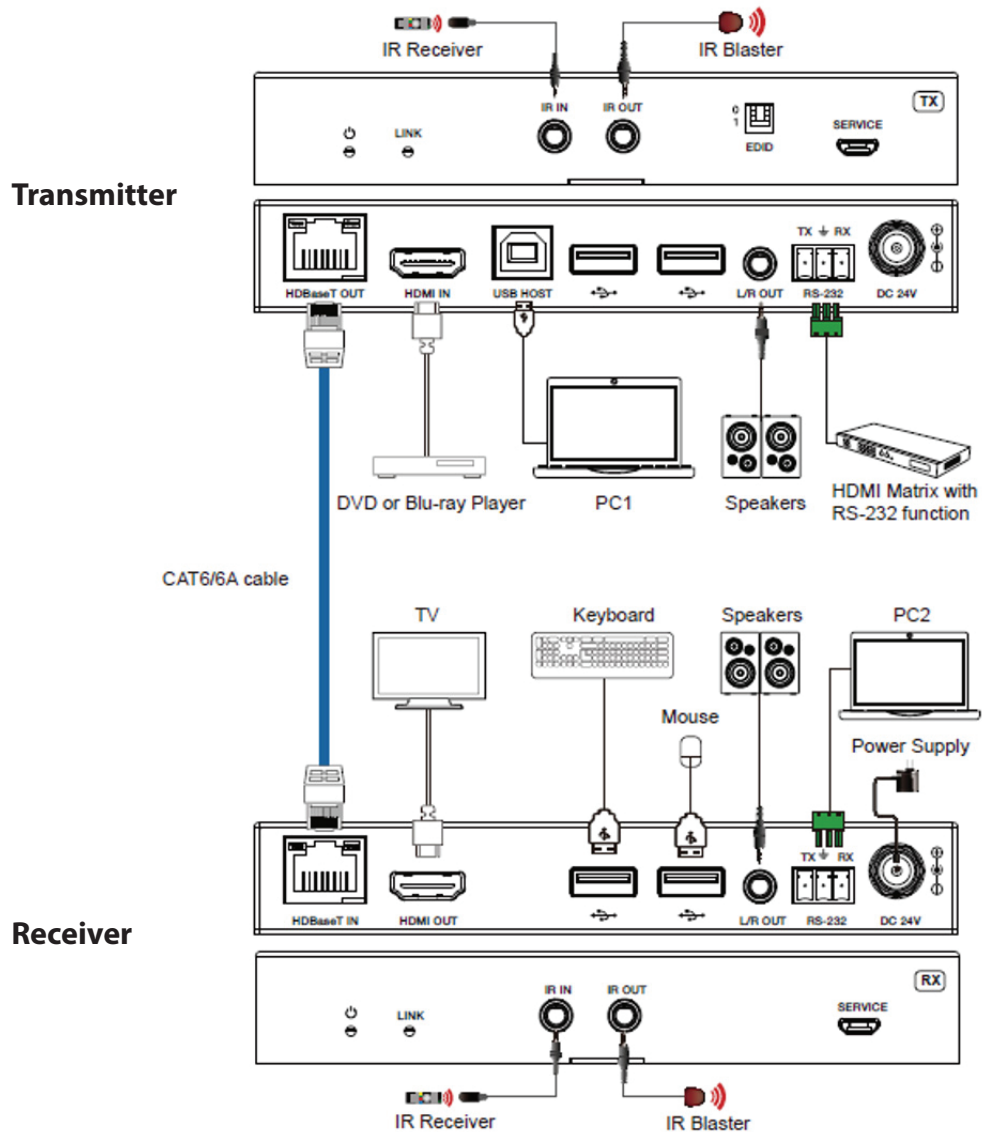
Disclaimer: Conditions of use may vary. Information is subject to change without notice.

TECHNICAL SPECIFICATION

EHB-340



Application Example



HDBaseT 3.0 18Gbps HDMI Extender with
USB 2.0

Part Number:	EHB-340
Revision Number:	1
Date:	08-20-22
Page Number:	6 of 6

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

Disclaimer: Conditions of use may vary. Information is subject to change without notice.