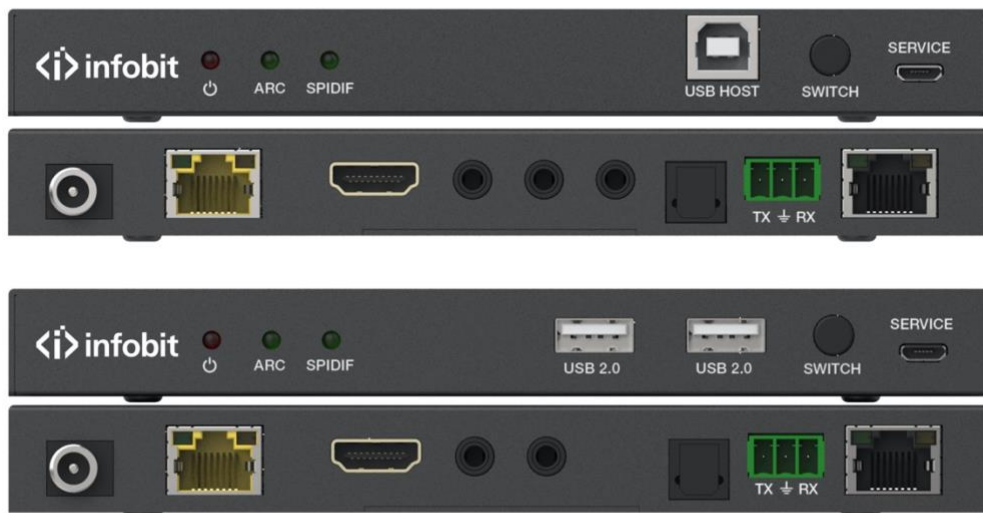


# iTrans E100K

18Gbps HDMI over HDBaseT Extender with Bi-directional IR (100M)

*Datasheet*



## 1. Introduction

This 18Gbps HDMI Extender can extend high-definition video / audio signal, RS-232, bidirectional IR and internet signal, at the distance of up to 328ft / 100 meters between transmitter and receiver via a single CAT6a/7 cable and support resolution up to 4K2K@60Hz 4:4:4. The transmitter supports ARC function and local audio extract. In addition, the extender is equipped with bi-directional IR pass-through which allows for source and display control. It also supports USB KVM and PoC function.

The extender offers the most convenient solution for HDMI extension via a single CAT cable with long distance capability, and is the perfect solution for any application.

## 2. Features

- ☆ HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- ☆ Support 18Gbps video bandwidth
- ☆ Video resolution is up to 4k2k@60Hz YUV 4:4:4
- ☆ The maximum transmission distance is 328ft / 100 meters via a single CAT6a/7 cable
- ☆ Support ARC (Audio Return Channel) function
- ☆ With bi-directional IR, RS-232 and CEC pass-through

- ☆ Support USB KVM function
- ☆ HDR, HDR10+, Dolby Vision and HLG function supported
- ☆ Support PoC (Power over Cable) function
- ☆ Compact design for easy and flexible installation.

### 3. Datasheet

HDCP Compliance	HDCP 2.2 / HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	4K2K 50/60Hz 4:4:4 4K2K 50/60Hz 4:2:2 4K2K 50/60Hz 4:2:0 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All PC resolutions including 1920 x 1200
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr 4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4 )
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
L/R Audio Formats	PCM 2.0
SPDIF Audio Formats	LPCM2.0, Dolby Digital, Dolby Digital Plus, DTS
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Transmitter	Inputs: 1x HDMI Type A [19-pin female] Outputs: 1x HDBT OUT [RJ45, 8-pin female] 1x SPDIF OUT [S/PDIF] 1xL/R OUT [3.5mm Stereo Mini-jack] 1xLAN [RG45] Control: 1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port] 1xUSB HOST [USB Type B ]

Receiver	<p>Inputs: 1x HDBT IN [RJ45, 8-pin female]            1x SPDIF IN [S/PDIF]            Outputs: 1x HDMI Type A [19-pin female]            1x LAN [RG45]            Control: 1x IR IN [3.5mm Stereo Mini-jack]            1x IR OUT [3.5mm Stereo Mini-jack]            1x RS-232 [Phoenix jack]            1x SERVICE [Mini-USB, Update port]            2xUSB 2.0 [USB Type A]</p>
Dimensions	Transmitter / Receiver: 165mm [W] x 88mm [D] x 18mm [H]
Weight	Transmitter: 170g, Receiver: 165g
Power Supply	<p>Input: AC 100 - 240V 50/60Hz            Output: DC 24V/1A (Locking connector)</p>