Over IP/300M R096-IP-FMB-HDT-S301TX

4K/60Hz over IP fiber KVM extender supports audio/video signal transmission over a duplex multi-mode LC fiber cable for distances up to 300m (1,000 ft). The transmitter/encoder is equipped with HDMI, DisplayPort, and USB Type-C input ports, which can be selected via an IR switch.

HDCP 2.3 USB2.0 HDMI DisplayPort Type-C

HALF FEATURE COMPRESSED RS-232 AUDIO VIDEO 4K60 UltraHD 4:4:4

Description

This IP transmitter/encoder smoothly switches between HDMI, DisplayPort, and USB Type-C input signals. Users can effortlessly transition between these inputs using IR controls, ensuring a seamless experience. Additionally, it supports signal extension via the TCP/IP protocol over a single LC duplex multi-mode fiber cable for up to 300m(1000ft) at 4K/60Hz resolution. (Applicable to 1G Fiber version only.)
It also supports the transmission of audio, RS-232, IR, and USB 2.0 control signals, extending up to 100 meters over a single cable. Furthermore, the transmission distance can be extended by cascading through a Gigabit Ethernet network switch (Level II) that supports IGMP and VLAN.

Features

- Support 1 HDMI, 1 DisplayPort, and 1 USB Type-C Switch Inputs
- 4k/60Hz HDMI local output port at transmitter
- Input selection control via IR control pad
- Automatic detect input signal selection
- LED indicators for active input and power
- Compression Algorithm: Visually lossless compression; Compression Ratio: x18 ~ x20
- Latency Time: 2ms (2160P)
- Video bitrate: ~ 800Mbps
- With HDMI Output for local monitoring display
- Unlimited distance through cascading 1G hub/switch, No more signal interference
- Dip switch to set up unit ID number
- Control interfaces over RS-232, IR
- High-performance USB 2.0 extension over IP, which supports Webcam
- Target applications True 4K UHD-over-IP Extender; USB-over-IP Extender Unicast A/V Extender; AV/KVM-over-IP
- Supports following function
  1. video streams up to 4K@60Hz (YUV420/422/444) In/Out
  2. HDCP2.2/2.3
  3. HDR10, HDR10+, Dolby Vision
  4. Audio LPCM up to 12 channels
  5. Audio Line-OUT
  6. transmission up to 100 meters over Cat6 UTP solid cable

* Slide switch to select unicast or broadcasting function
  1. Unicast – for one to one extension function
  2. Broadcasting – for one to many splitter function

Accessory

- 24V 1A international power adapter x 1 set
- IR-IN & IR-OUT cable x 1 pair
- IR Control Pad x 1
- Surface Mounting Bracket x 2

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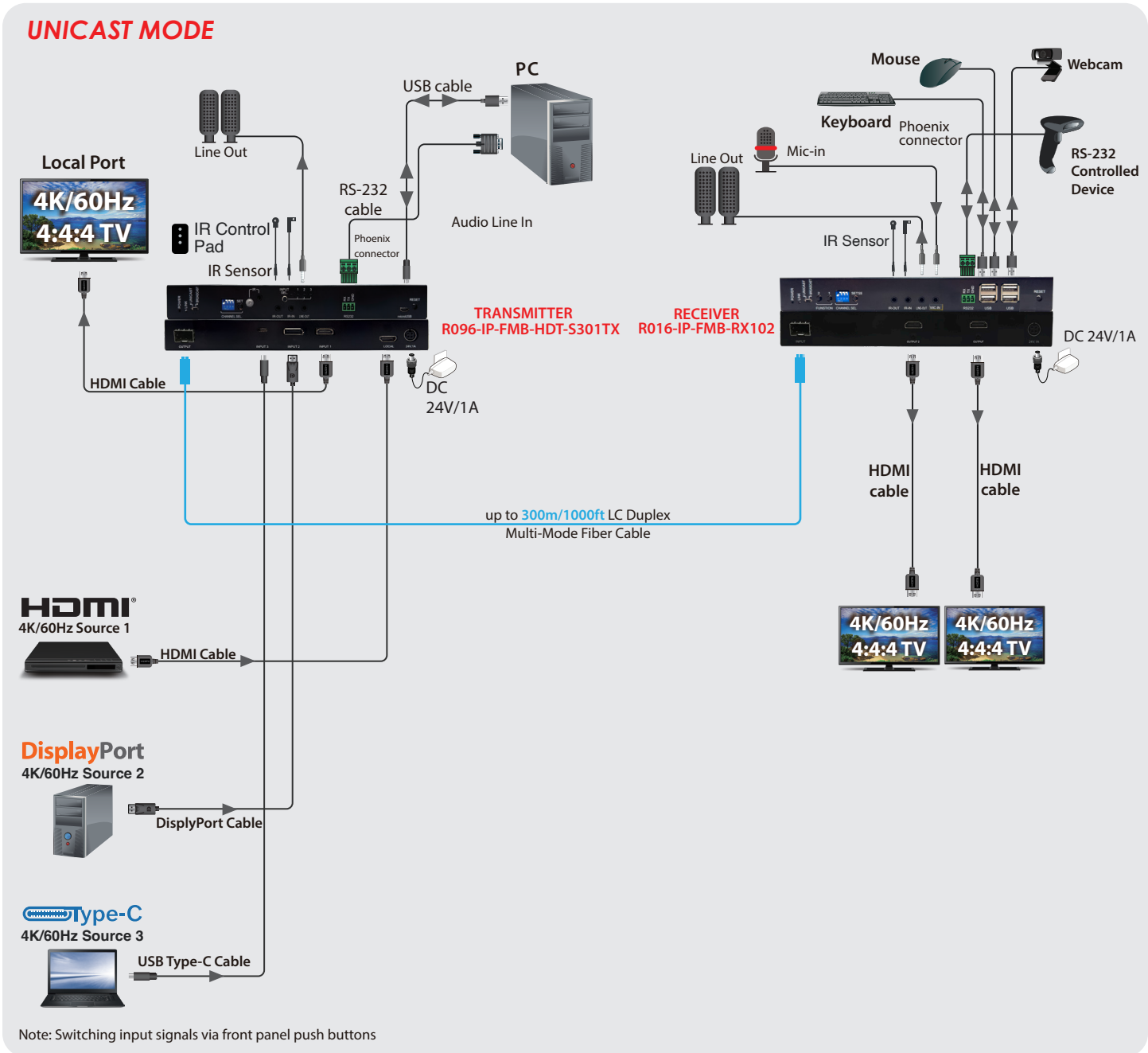
Application Diagram



Note: Switching input signals via front panel push buttons

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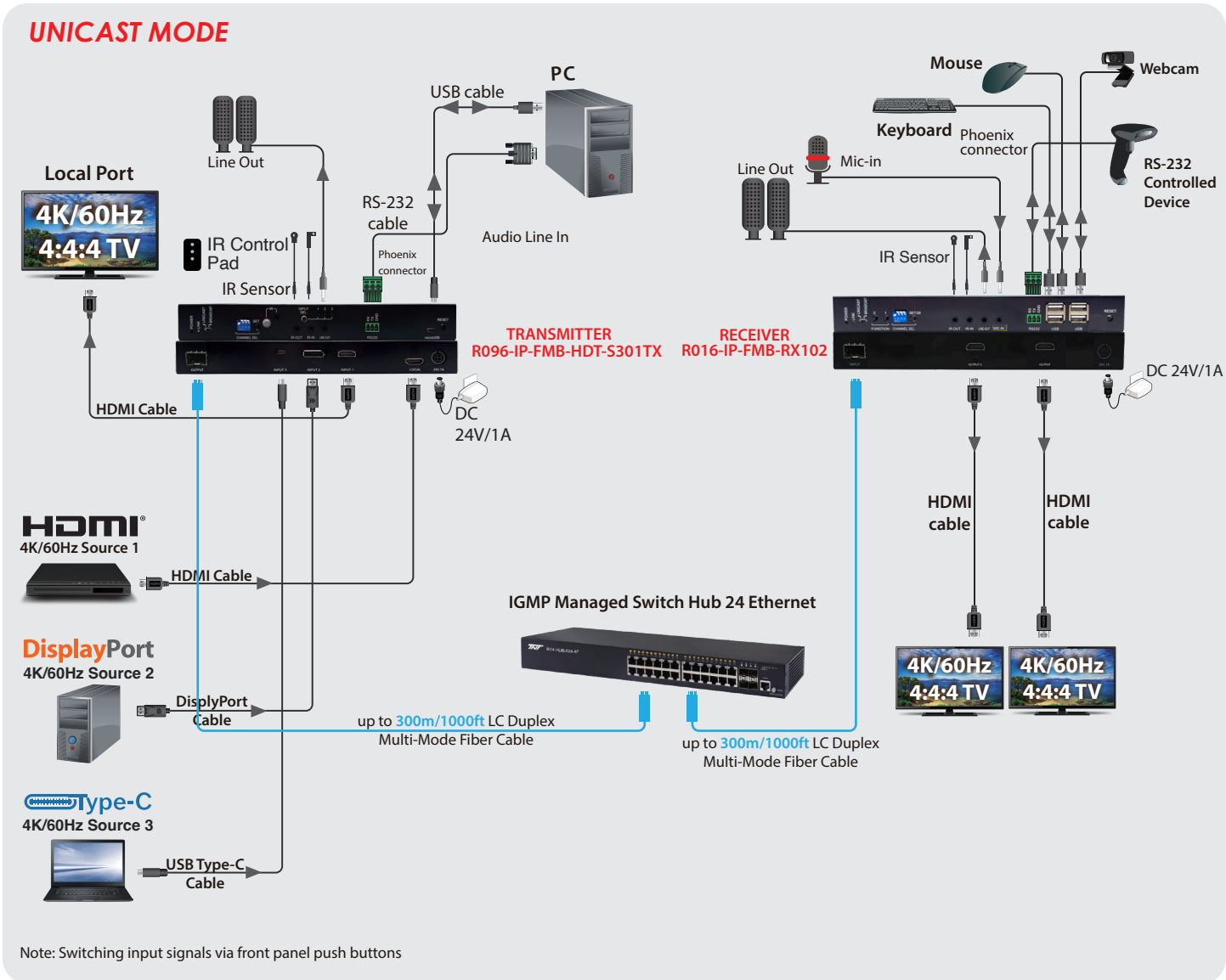

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Part Number	Description	PoC	HDR	TX Local HDMI OUT	Distance	FOB	MOQ	Unit Price
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