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

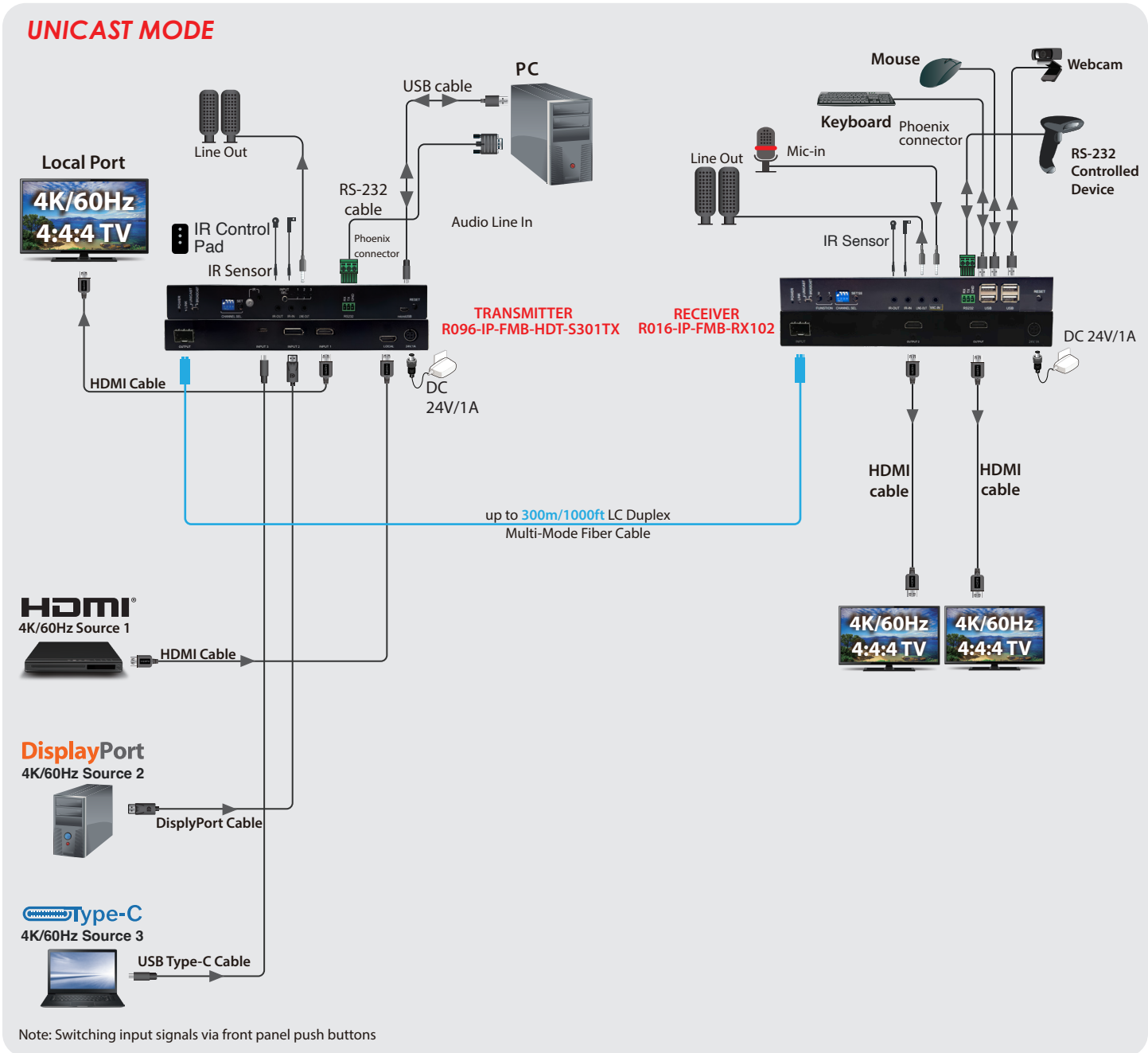
Accessory

- 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

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.

Application Diagram

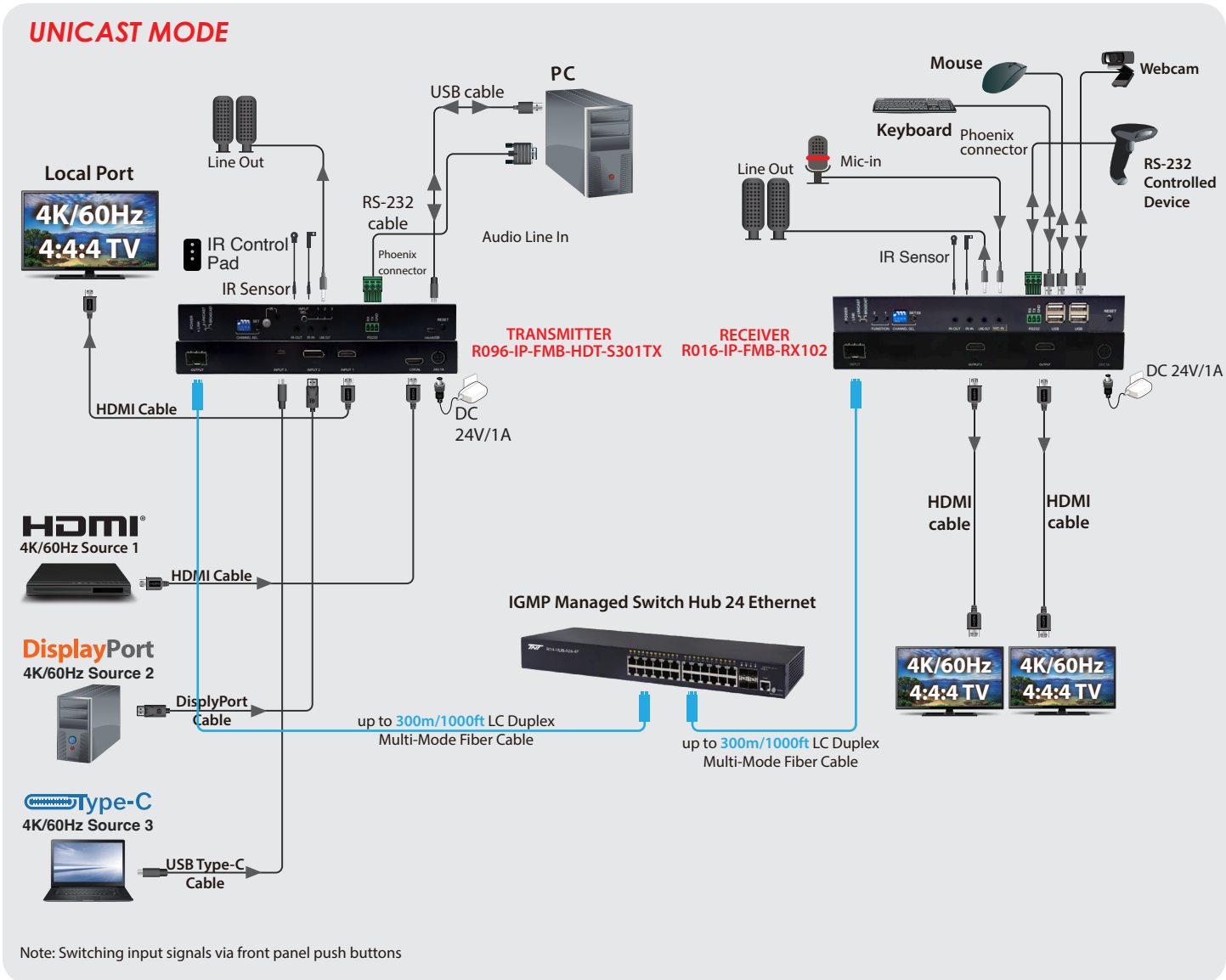


Note: Switching input signals via front panel push buttons

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.

Application Diagram



Note: Switching input signals via front panel push buttons

Part Number	Description	PoC	HDR	TX Local HDMI OUT	Distance	FOB	MOQ	Unit Price
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.	☐	■	■	10KM/ 32,800ft	TAIWAN	See Price Sheet	See Price Sheet

Over IP/10KM R096-IP-FSB-HDT-S301TX

4K/60Hz over IP fiber KVM extender supports audio/video signal transmission over a duplex single-mode LC fiber cable for distances up to 10 KM (32,800 ft). The transmitter/encoder is equipped with HDMI, DisplayPort, and USB Type-C input ports, which can be selected via 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 single-mode fiber cable for up to 10 km (32,800 ft) 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 10km over a single LC duplex single-mode fiber 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

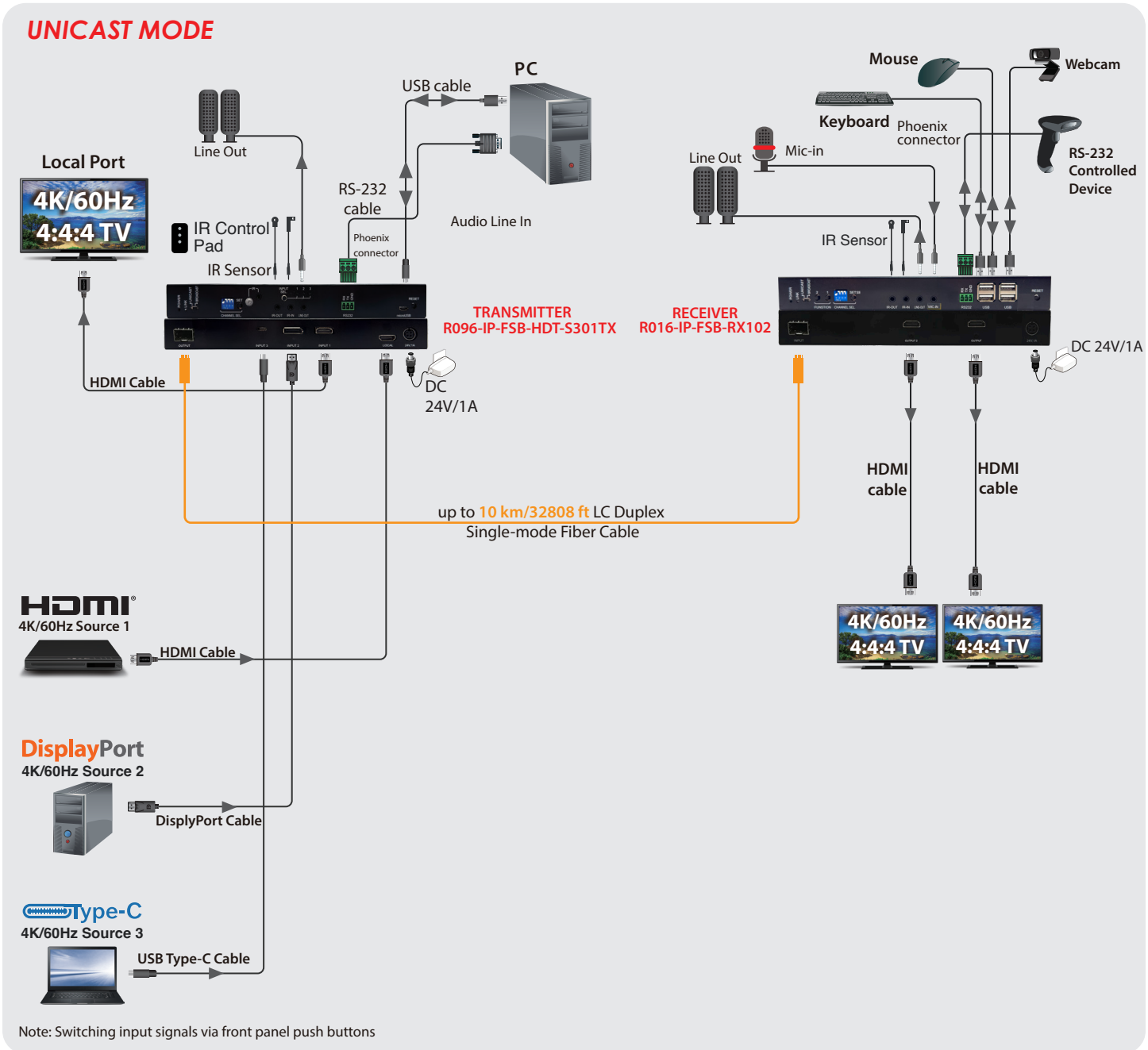
Accessory

- 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

Over IP/10KM R096-IP-FSB-HDT-S301TX

4K/60Hz over IP fiber KVM extender supports audio/video signal transmission over a duplex single-mode LC fiber cable for distances up to 10 KM (32,800 ft). The transmitter/encoder is equipped with HDMI, DisplayPort, and USB Type-C input ports, which can be selected via IR switch.

Application Diagram

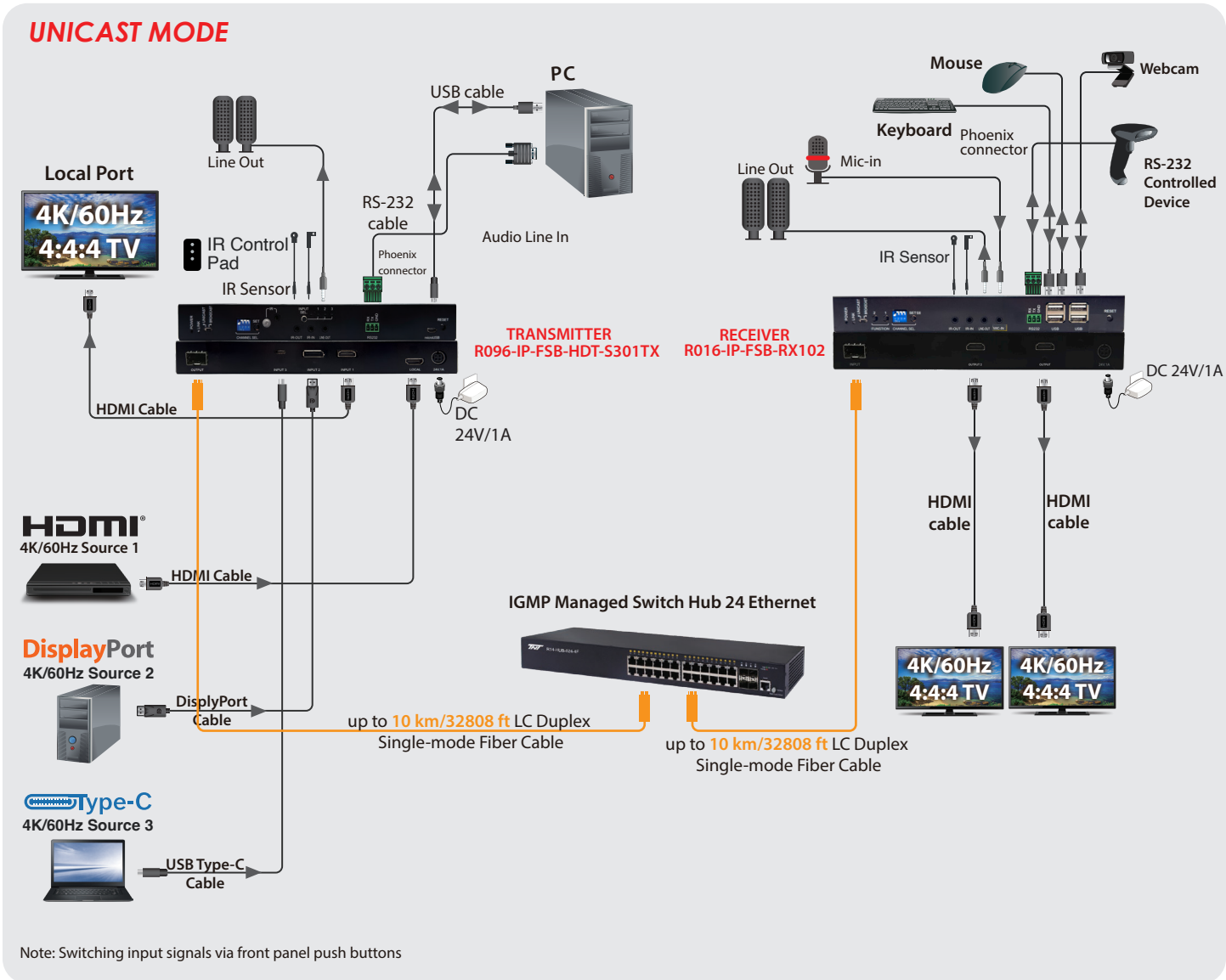


Note: Switching input signals via front panel push buttons

Over IP/10KM R096-IP-FSB-HDT-S301TX

4K/60Hz over IP fiber KVM extender supports audio/video signal transmission over a duplex single-mode LC fiber cable for distances up to 10 KM (32,800 ft). The transmitter/encoder is equipped with HDMI, DisplayPort, and USB Type-C input ports, which can be selected via IR switch.

Application Diagram



Note: Switching input signals via front panel push buttons

Part Number	Description	PoC	HDR	TX Local HDMI OUT	Distance	FOB	MOQ	Unit Price
R096-IP-FSB-HDT-S301TX	4K/60Hz over IP fiber KVM extender supports audio/video signal transmission over a duplex single-mode LC fiber cable for distances up to 10 KM (32,800 ft). The transmitter/encoder is equipped with HDMI, DisplayPort, and USB Type-C input ports, which can be selected via IR switch.	☐	■	■	10KM/ 32,800ft	TAIWAN	See Price Sheet	See Price Sheet

Over IP/300M R016-IP-FMB-RX102

4K/60Hz HDMI Audio Video over IP 1G Fiber up to 300 m/1,000 ft LC Duplex Multi-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs

COMPRESSED HDCP 2.3 USB2.0 HDMI

CE FC RS-232 AUDIO VIDEO 4K60 UltraHD 4:4:4

Description

This extender kit is an HDMI over IP Receiver/decoder with dual HDMI outputs that allows the extension of HDMI signals using the TCP/IP protocol over 1G Fiber up to 300 m/1,000 ft LC Duplex Multi-Mode Fiber Cable. This extender supports transmissions up to 4K/60Hz with Audio/RS232/IR/USB 2.0 control signal up to 100 meters on a single cable.

The transmission distance can be further extended by using a Gigabyte Ethernet network switch (Level II, support IGMP and VLAN). This Receiver also features bi-directional IR and RS232 pass-through. The extender kit also allows the Receiver to operate in multicase mode, allowing the sending of a single AV signal to multiple receivers within the same local network.

Features

- Compression Algorithm: Visually lossless compression; Compression Ratio: x18 ~ x20
- Latency Time: 2ms (2160P)
- Video bitrate: ~ 800Mbps
- Support Receiver two output 4K/60Hz HDMI
- Supports HDMI video streams up to 4K@60Hz (YUV420/422/444) In/Out
- Supports HDCP2.2/2.3
- Supports HDR10, HDR10+, Dolby Vision
- Supports Audio LPCM up to 12 channels
- Supports Audio Lines IN/OUT & MIC IN
- Supports 1G Fiber up to LC Duplex 300 m/1,000 ft Multi-Mode Fiber Cable
- Supports Broadcasting
- Unlimited distance through hub/switch, No more signal interference
- Control interfaces over RS-232, IR
- High-performance USB 2.0 extension over IP, which supports Webcam
- Target applicationsTrue 4K UHD-over-IP Extender; USB-over-IP Extender Unicast A/V Extender; AV/KVM-over-IP

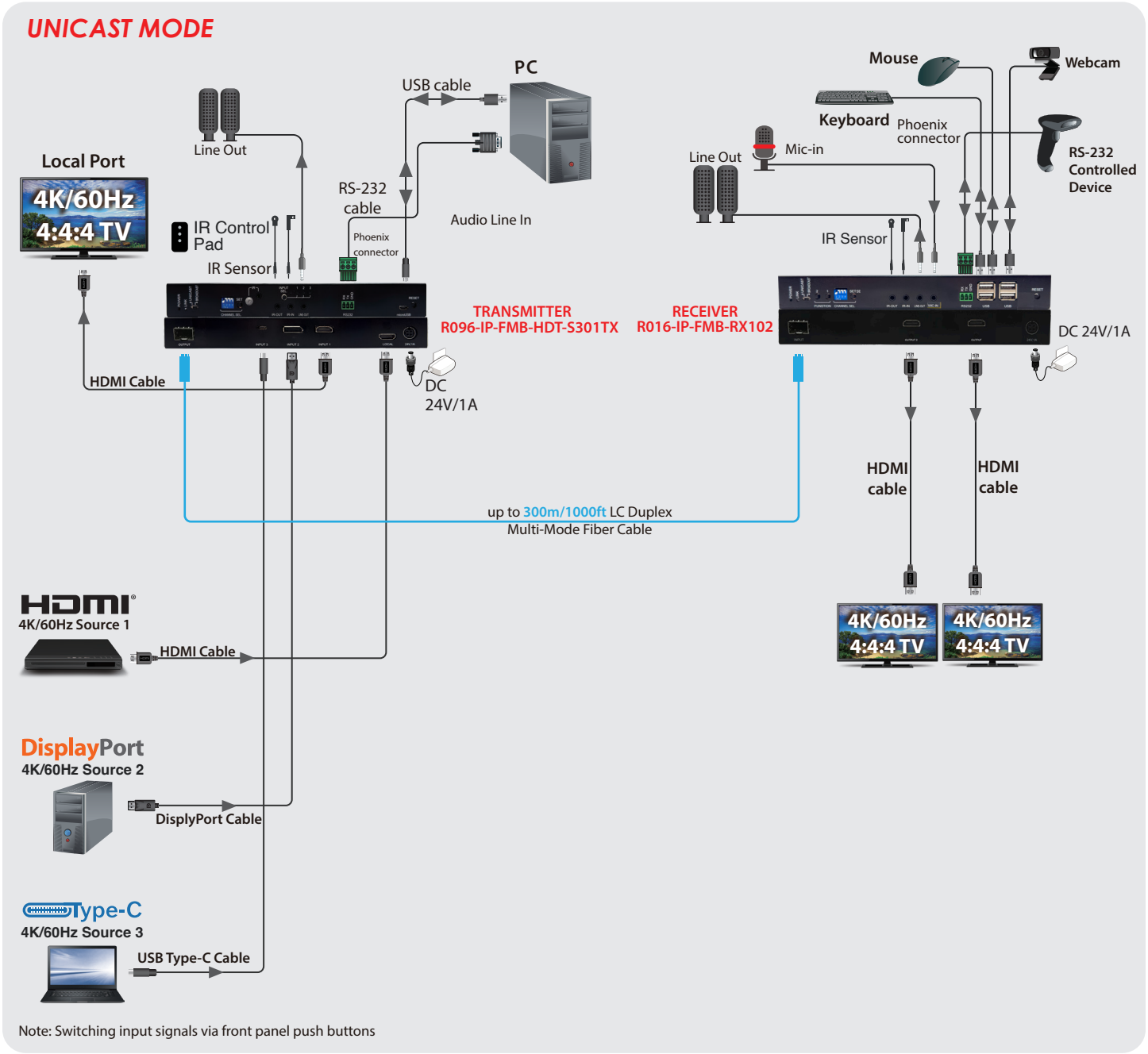
Accessory

- 24V 1A international power adapter x 1 set
- IR-IN & IR-OUT cable x 1 pair

Over IP/300M R016-IP-FMB-RX102

4K/60Hz HDMI Audio Video over IP 1G Fiber up to 300 m/1,000 ft LC Duplex Multi-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs

Application Diagram



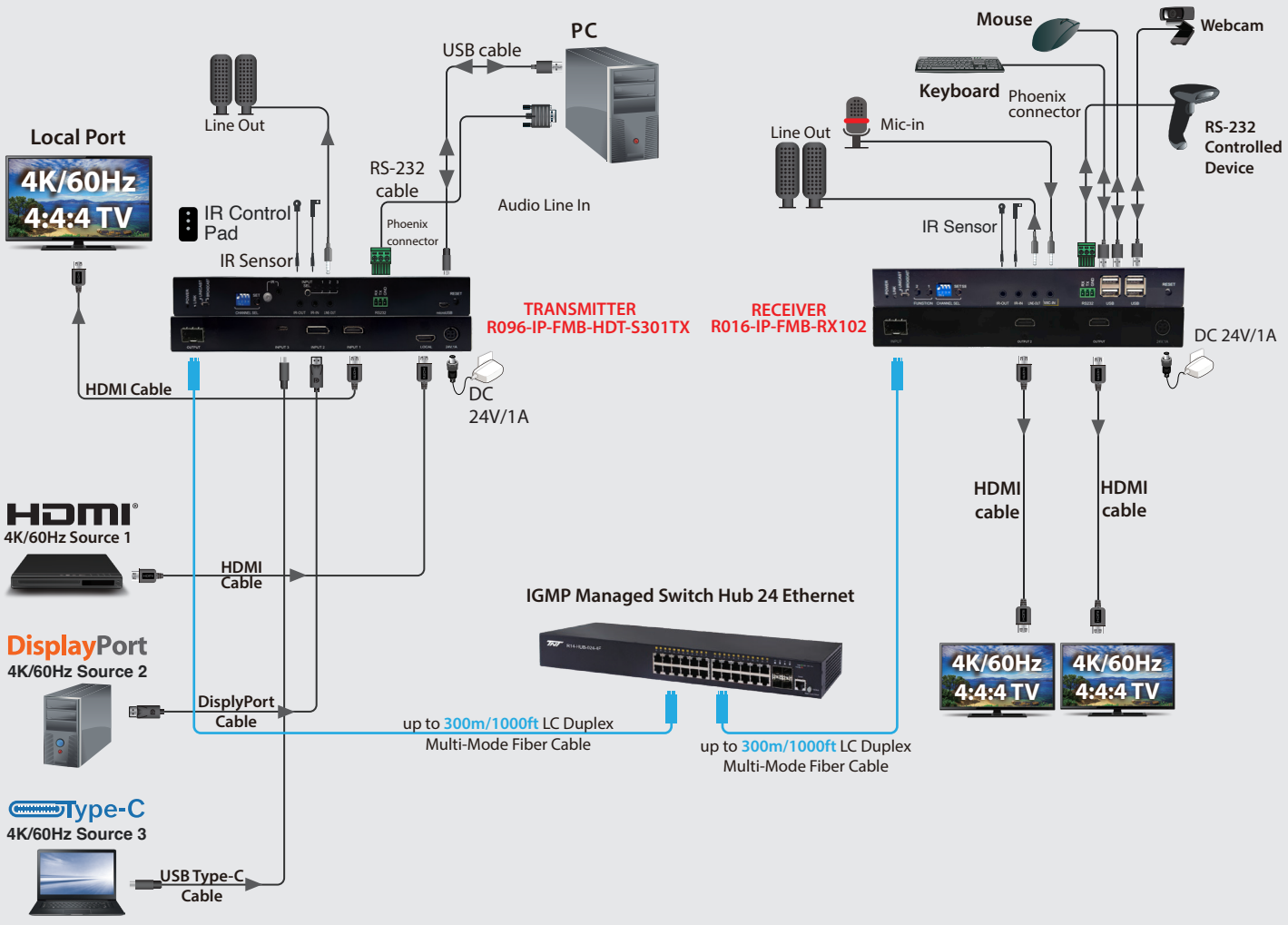
Note: Switching input signals via front panel push buttons

Over IP/300M R016-IP-FMB-RX102

4K/60Hz HDMI Audio Video over IP 1G Fiber up to 300 m/1,000 ft LC Duplex Multi-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs

Application Diagram

UNICAST MODE



Note: Switching input signals via front panel push buttons

Part Number	Description	PoC	HDR	TX Local HDMI OUT	Distance	FOB	MOQ	PRICE
R016-IP-FMB-RX102	4K/60Hz HDMI Audio Video over IP 1G Fiber up to 300 m/1,000 ft LC Duplex Multi-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs	☐	■	☐	300 m/ 1,000 ft	TAIWAN	See Price Sheet	See Price Sheet

Over IP/10KM R016-IP-FSB-RX102

4K/60Hz HDMI Audio Video over IP 1G Fiber up to 10 km/32,808 ft LC Duplex Single-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs

COMPRESSED HDCP 2.3 USB2.0 HDMI

CE FC RS-232 AUDIO VIDEO 4K60 UltraHD 4:4:4

Description

This extender kit is an HDMI over IP Receiver/decoder with dual HDMI outputs that allows the extension of HDMI signals using the TCP/IP protocol over 1G Fiber up to 10 km/32,808 ft LC Duplex Single-Mode Fiber Cable. This extender supports transmissions up to 4K/60Hz with Audio/RS232/IR/USB 2.0 control signal up to 100 meters on a single cable.

The transmission distance can be further extended by using a Gigabyte Ethernet network switch (Level II, support IGMP and VLAN). This Receiver also features bi-directional IR and RS232 pass-through. The extender kit also allows the Receiver to operate in multicase mode, allowing the sending of a single AV signal to multiple receivers within the same local network.

Features

- Compression Algorithm: Visually lossless compression; Compression Ratio: x18 ~ x20
- Latency Time: 2ms (2160P)
- Video bitrate: ~ 800Mbps
- Support Receiver two output 4K/60Hz HDMI
- Supports HDMI video streams up to 4K@60Hz (YUV420/422/444) In/Out
- Supports HDCP2.2/2.3
- Supports HDR10, HDR10+, Dolby Vision
- Supports Audio LPCM up to 12 channels
- Supports Audio Lines IN/OUT & MIC IN
- Supports 1G Fiber up to LC Duplex 10 km/32808 ft Single-Mode Fiber Cable
- Supports Broadcasting
- Unlimited distance through hub/switch, No more signal interference
- Control interfaces over RS-232, IR
- High-performance USB 2.0 extension over IP, which supports Webcam
- Target applicationsTrue 4K UHD-over-IP Extender; USB-over-IP Extender Unicast A/V Extender; AV/KVM-over-IP

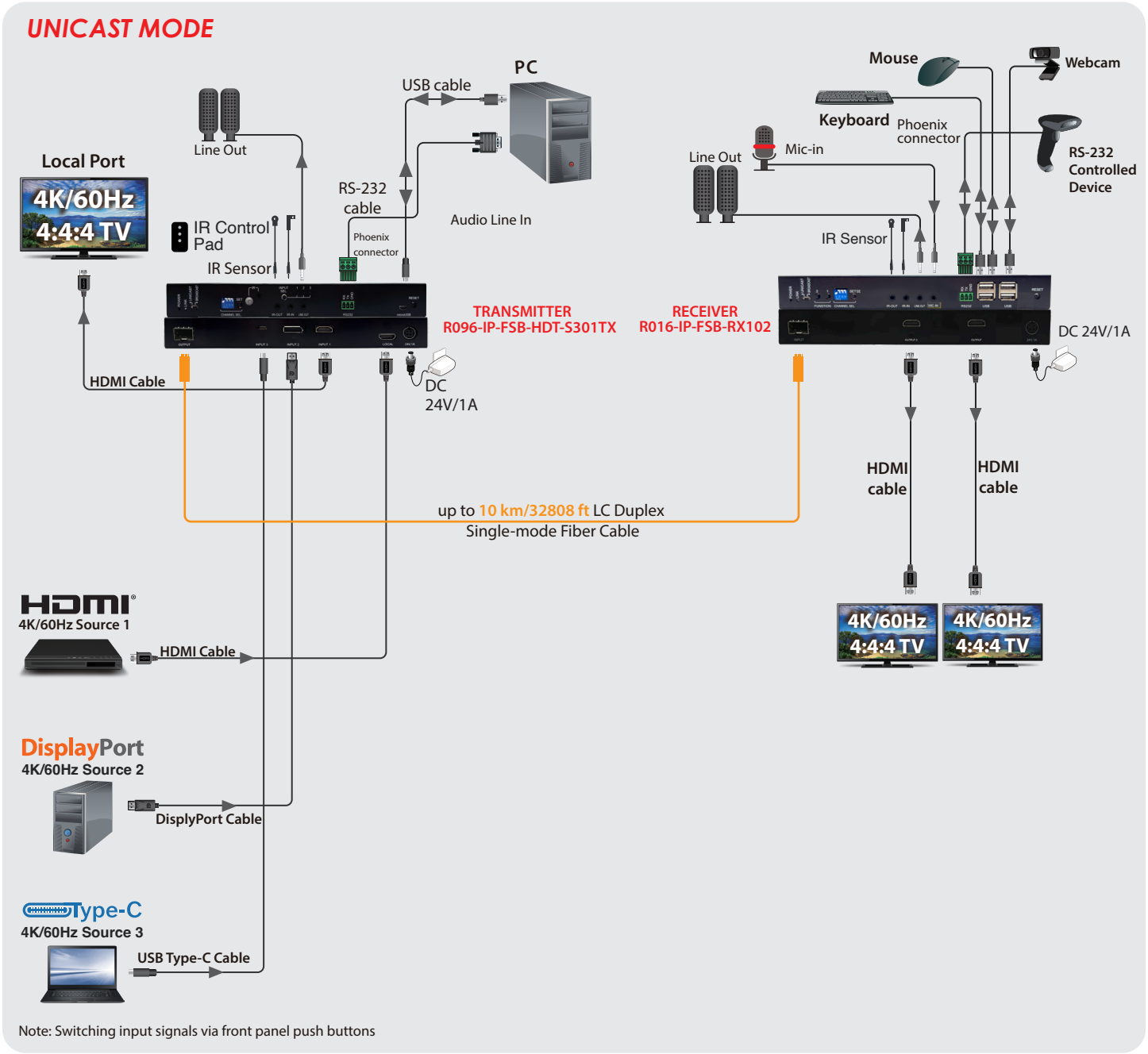
Accessory

- 24V 1A international power adapter x 1 set
- IR-IN & IR-OUT cable x 1 pair

Over IP/10KM R016-IP-FSB-RX102

4K/60Hz HDMI Audio Video over IP 1G Fiber up to 10 km/32,808 ft LC Duplex Single-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs

Application Diagram



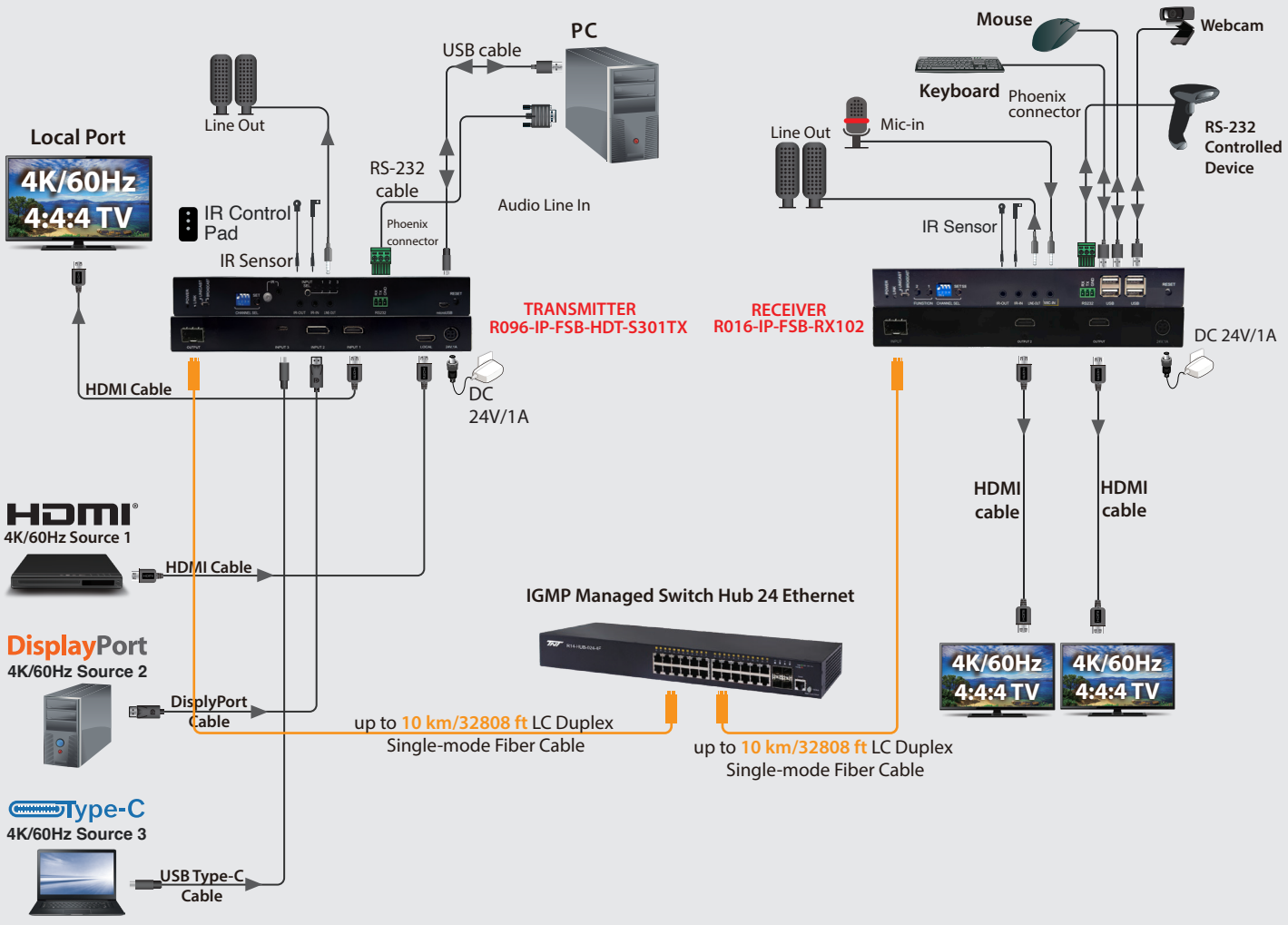
Note: Switching input signals via front panel push buttons

Over IP/10KM R016-IP-FSB-RX102

4K/60Hz HDMI Audio Video over IP 1G Fiber up to 10 km/32,808 ft LC Duplex Single-mode Fiber Cable Extender Receiver/Decoder with dual HDMI outputs

Application Diagram

UNICAST MODE



Note: Switching input signals via front panel push buttons

Part Number	Description	PoC	HDR	TX Local HDMI OUT	Distance	FOB	MOQ	PRICE
R016-IP-FSB-RX102	4K/60Hz HDMI Audio Video over IP 1G Fiber up to 10 km/32808 ft LC Duplex Single-mode Fiber Cable Extender Receiver with two HDMI outputs	☐	■	☐	10 km/ 32808 ft	TAIWAN	See Price Sheet	See Price Sheet