

1GB AV over IP Solution

MTC IPJ2 AV over IP Encoder and Decoder



Decoder
Model No.: IPJ2-R

Encoder
Model No.: IPJ2-T

MTC IPJ2 AV over IP Series provides one of the most advanced 1G IP Streaming solutions on the market. It allows easy extension and supports up to 4K60 4:4:4 over 1GB network. This low-latency and versatile solution consists of individual transmitter and receiver units that can be configured in various combinations. The system is based on Linux for software development, which provides flexible control methods.

Key Features



HDMI 2.0b, HDCP 2.2 compliant



Support 18Gbps video bandwidth



Input and output video resolution is up to 4K60 4:4:4



Transmit video, analog/digital audio, IR , RS-232, CEC and USB over Ethernet



Support unicast and multicast functions



Support point-to-point, video matrix and video wall supports up to 9x9



Support MJPEG Substream real-time preview



Built-in web page configuration and control, Telnet and SSH

Product Specifications

HDMI Compliant	HDMI 2.0b
HDCP Compliant	HDCP 2.2
Video Bandwidth	18Gbps
Video Compression Standard	JPEG2000
Video Network Bandwidth	1G
Video Resolution	Up to 4K@60Hz 4:4:4
Color Depth	Input: 8/10/12-bit Output: 8-bit
Color Space	RGB 4:4:4, YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDMI Audio Formats	LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master
Transmission Distance	100M CAT5E/6/6A/7
IR Level	Default 12V, optional 5V
IR Frequency	Wideband 20K - 60KHZ
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection

Encode Input	1 x HDMI IN [Type A, 19-pin male] 1 x L/R AUDIO IN [3-pin 3.81mm Phoenix connector]
Encode Output	1 x HDMI OUT [Type A, 19-pin male] 1 x L/R AUDIO OUT [3-pin 3.81mm Phoenix connector] 1 x SPDIF OUT [Optical audio connector]
Encoder Control	1 x RS-232 [3-pin 3.81mm Phoenix connector] 1 x LAN (PoE) [RJ45 jack] 1 x FIBER [Optical fiber slot] 1 x USB 2.0 HOST [Type B, 4-pin female] 2 x USB 2.0 DEVICE [Type-A, 4pin female] 2 x RELAYS [3.81mm Phoenix connector] 2 x DIGITAL IO [3.81mm Phoenix connector] 1 x IR IN [3.5mm Audio Jack] 1 x IR OUT [3.5mm Audio Jack]
Decoder Input	1 x SPDIF IN [Optical audio connector] 1 x L/R AUDIO IN [3-pin 3.81mm Phoenix connector]
Decoder Output	1 x HDMI OUT [Type A, 19-pin male] 1 x L/R AUDIO OUT [3-pin 3.81mm Phoenix connector]
Decoder Control	1 x RS-232 [3.81mm Phoenix connector] 1 x LAN (PoE) [RJ45 jack] 1 x FIBER [Optical fiber slot] 2 x USB 1.1 DEVICE [Type-A, 4pin female] 2 x USB 2.0 DEVICE [Type-A, 4pin female] 2 x RELAYS [3.81mm Phoenix connector] 2 x DIGITAL IO [3.81mm Phoenix connector] 1 x IR IN [3.5mm Audio Jack] 1 x IR OUT [3.5mm Audio Jack]

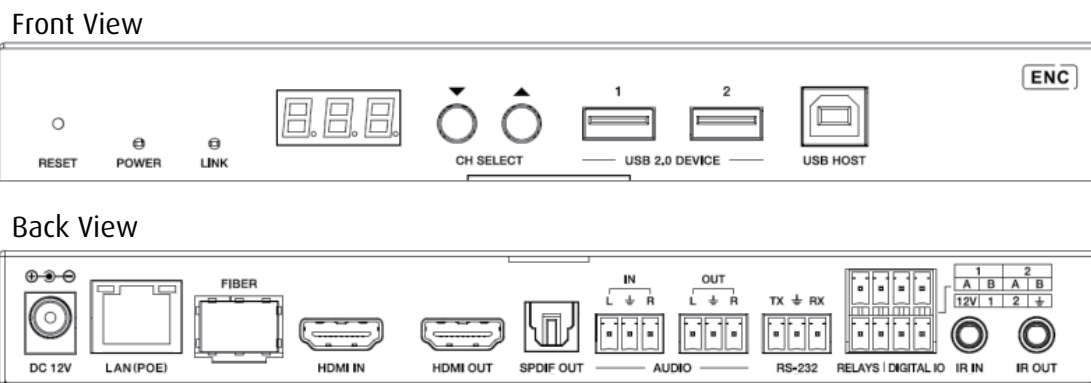
Mechanical Specifications

Housing	Metal enclosure
Color	Black
Dimensions	Encoder/Decoder: 204mm [W] x 136mm [D] x 25.5mm [H]
Weight	Encoder: 631g, Decoder: 626g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Encoder: 8.52W, Decoder: 7.08W (Max.)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensing)

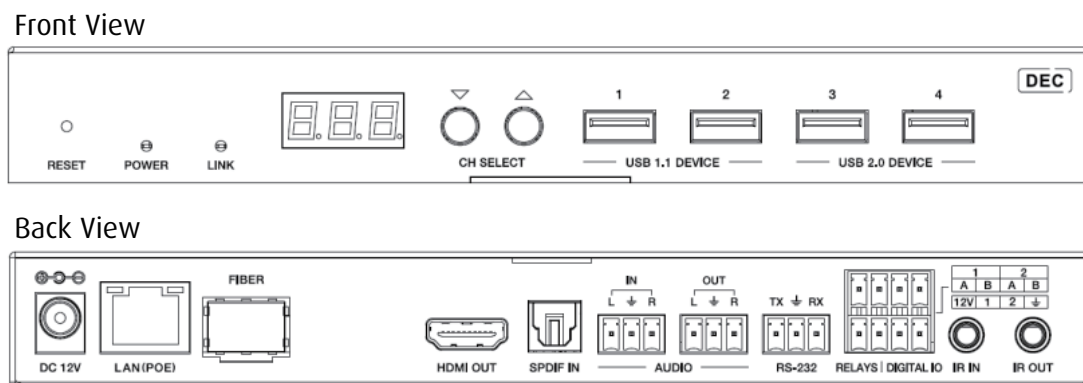
Resolution / Cable Length	4K60- Feet/Meters	4K30- Feet/Meters	1080P60- Feet/Meters
HDMI IN/ OUT	16ft/ 5M	32ft/10M	50ft/15M

Remarks: Use of "Premium High Speed HDMI" cable is strongly recommended.

Encoder Panel



Decoder Panel



* All features and specifications are subject to change without notice.