



IP-9000TX

1G 4K60 AV over IP Transmitter with USB & PoE



The IP-9000TX 1G AV over IP encoder with full 4K HDR and Dolby Vision support is the latest advancement in AV over IP technology. Supporting both Unicast and Multicast modes, enabling AV signals distribution with video wall modes and USB functionality in Multicast mode. It supports the transmission of Ultra High-Definition signals (up to 4K@60Hz 4:4:4 plus 4K HDR and Dolby Vision) with audio, IR, RS-232 and USB 2.0 up to 100m on a single cable. The USB connectivity allows for the connection of USB flash drives, webcams, keyboard, and mouse etc. The transmission distance can be further extended (up to 100m per segment) by using gigabit network switches, allowing the user to cascade the system without signal loss or introducing delay.

When the extension system's units are in multicast mode, a single transmitter's AV signal can be sent to a large number of receivers within the same local network without the additional receivers causing any bandwidth requirement increase. Additionally, that same multicast signal can be used to create large multi-display video walls with amazing simplicity. When combined with the optional IP Master Controller (IP-CS9000) the functionality of the system expands exponentially. Its centralised web-based interface greatly simplifies control and management of large, distributed video matrix or video wall systems adding to their flexibility in large residential or commercial installations.

This system also features bi-directional IR and RS-232 pass-through, analogue line level in/out, and a microphone input (on the receiver), providing the user with a variety of audio options. The USB functionality allows the system to act like a remote USB hub which, when combined with the HDMI input/output feature, provides a flexible remote platform for the seamless control of multiple PC systems. Configuration information is provided via On Screen Display (OSD) and the encoder own webGUI plus using the IP-CS9000 IP Master Controller, and direct Telnet commands.

The IP-9000TX is Dante Ready which can transmit Dante data upon activation and is compatible with any standard Dante audio transmitters/receivers that the audio might be routed to. Dante Ready provides a flexible way to enable and expand the connectivity and interoperability of the world's de-facto AV-over-IP solution, even after the initial purchase. Upgrade your system with Dante and connect to over 4,000 products from 500 manufacturers. Dante Ready is built within the widely used Dante Controller application for Dante audio and video subscription management. Transactions are simple and secure, and device upgrades are seamlessly actioned without the need to enter complex license keys of copy license files.

PANELS



Front View

Rear View

FEATURES

- 4K@60 1Gbps AV over IP transmitter in Unicast or Multicast mode
- Full 4K60 4:4:4, HDR10, HDR10+, Dolby Vision & HLG compatible
- IP interface: RJ45
- Supports USB over IP (flash drive, USB web cam (isochronous/Bulk), keyboard and mouse) and seamless control of multiple PC systems
- Supports PoE-PD (IEEE 802.3af)
- Bi-directional IR and RS-232 pass-through
- Controlled via WebGUI, IP Master Controller, and Telnet
- 1xHDMI input, 1xHDMI loopback output
- Supports the use of an external control system (IP Master Controller) to provide expanded functionality (Contact your authorised dealer for more information)
- Supports independent breakaway A/V and control matrix routing
- Supports extension of many audio formats including 8 channel LPCM and standard Bitstream
- The analogue Line In is automatically embedded in the streaming output and can be independently routed to any receiver
- Optional Dante Ready™ is compatible with existing Dante and AES67 audio networks
- Dante Ready brings Dante functionality to products already shipping and installed in sites.
- Channels and features can be added as an installation grow

SPECIFICATIONS

Interfaces

Input Port	1xHDMI (Type-A) 1xStereo Audio (3.5mm)
Output Port	1xHDMI (Type-A) 1xMono Audio (3.5mm)
Input/Control Port	1xGbE LAN (RJ-45)
Pass-through Port	1xIR Extender (3.5mm) 1xIR Blaster (3.5mm) 1xRS-232 (Type-C) 1xUSB 2.0 (Type-A)

Video

HDMI Compliance	HDMI 2.0 (DVI 1.0)
HDCP Compliance	HDCP2.2
Input Signal Type	4096x2160p@60 8bit RGB
Output Signal Type	4096x2160p@60 8bit RGB

Resolutions

Maximum Input	HDMI	4096x2160p@60
Maximum Output	LAN(Streaming)	4096x2160p@60

Audio

Digital Format	HDMI	LPCM (8Channels), Bitstream, High Bit Rate Bitstream
	Line In/Out	LPCM (2 Channels)
Line Level	Line In	2 Vrms, S/N Ratio: > 80dB (1kHz with 0dBFS)
	Line Out	2 Vrms, S/N Ratio: > 80dB (1kHz with 0dBFS)

Power

Power Supply	PoE (802.3af) or 12V/1.25 A
Power Consumption	7.19W

Enclosure

Chassis Material	Metal (Steel)
Chassis Colour	Black
Dimensions (WxHxD)	231.5mmx25mmx108mm [Case Only] 231.5mmx25mmx120mm [All Inclusive]
Weight	660g

Field Firmware Update

WebGUI

ORDERING INFORMATION

Model No.	Product Description
IP-9000TX	1G 4K60 AV over IP Transmitter with USB & PoE
IP-9000RX	1G 4K60 AV over IP Receiver with USB & PoE
IP-CS9000	1G 4K60 AV over IP System Controller & Configurator



IP-900TX

1G 4K60 AV over IP Transmitter with USB & PoE

DIAGRAM

