

Raritan AV-over-IP Distribution System Features and Benefits

Features

Benefits

Overview

Flexible HD Audio and Video Distribution over IP

Raritan AV-over-IP Distribution System (RAV-IP) for small and mid-sized applications provides high performance video and audio distribution via HDMI, USB, IR, audio and serial. The economical encoder/decoder based system can be installed in minutes using low cost Gigabit Ethernet switches and Cat5/6 cable or fiber.

High Performance Audio, Video, KVM & Control

With the RAV-IP system you can stream 1080p video at up to 60 frames-per-second, with low latency and minimum bandwidth. Supported video formats include: 1080p, 1920x1200 (WUXGA), and even 720p 3D video. Supported audio formats include: LPCM, DTSTM & Dolby® Audio Up to 7.1 channels.

Encoder & Decoder based System

RAV-IP is a flexible, encoder (transmitter) and decoder (receiver) based system, connected via standard technologies such as Ethernet and TCP/IP.

Connect via Cat5 Cable or Fiber

Flexible, low-cost Cat5 cable can be used, as well as fiber for longer distances up to 10 kilometers. The system is unique in its flexible support for both Cat5 and fiber in a single, inexpensive system.

Installation and Configuration Made Easy

To install and configure RAV-IP, connect the encoders and decoders to your input and output devices, and then to a Gigabit Ethernet switch. RAV-IP can automatically set IP addresses or static IP addresses can be used. DHCP server addressing also supported. Use our new configuration program for larger installations or for integration with AV Control Systems.

Switches with Rotary Channel Switch or Remote Control

RAV-IP supports simple and easy to use control mechanisms as well as integration with leading AV Control Systems.

Enables a Wide Range of Applications

Raritan's AV-over-IP Distribution System is perfect for small and mid-sized applications. Common applications include: Digital Signage, Corporate Lobbies, TV Distribution, Conference Rooms, Hospitality, Retail, Entertainment and Broadcast, Rental and Staging, Education, House of Worship, Control Rooms, and Transportation & Energy.

AV and KVM over IP Extension, Distribution & Switching

RAV-IP enables a wide range of applications through a few basic, yet powerful configurations: (1) Point-to-point extension to extend an AV device or computer to another location, (2) Single-channel video distribution to multiple destinations, and (3) Multi-channel switching of multiple video sources to multiple destinations.

Works with PC's, Media Players, Screens and Projectors

USB keyboard, mouse, IR and serial control are available to support a large variety of AV and computer devices.

Easy to expand

To expand the system for more video sources or destinations, just cable up additional encoders and decoders.

AV-over-IP Specifications

True AV-over-IP for Audio, Video and Control

The RAV-IP system supports a true AV-over-IP service with HDMI audio and video, USB for keyboard, mouse and USB media, infra-red (IR) for device control, PC audio input/output, serial control and even DVI-I (analog & digital) outputs on the decoder.

High Quality 1080p Video at Up to 60 Frames-Per-Second

High performance video is supported including 1080p video at up to 60 frames-per-second.

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Flexible Bandwidth Usage	Bandwidth usage (5 Mb to 100 Mb) is not fixed. It varies with the video resolution and amount of change taking place on the input video.
1080p, 1920x1200 (WUXGA) & 720p 3D video	Multiple video formats are supported including: 1080p, 1920x1200 (WUXGA) & 720p 3D video.
HDMI digital & PC analog audio	Two types of audio are supported: audio embedded within the HDMI signal and standard computer audio via 3.5mm jacks.
HDCP	HDCP is supported for copy protected content.

Flexible IP Networking

Encoder & Decoder Based Solution	RAV-IP is a flexible, encoder (transmitter) and decoder (receiver) based system. Connect an encoder to each audio/video source and a decoder to each video output like a TV or projector. The encoder and decoders are connected together via the IP-based network.
Uses Cat5/6 Cabling and Gigabit Ethernet Switches	Encoders and decoders can be connected via Cat5/6 cable, fiber and Gigabit (or better) Ethernet switches.
Optional SFP Fiber Transceivers for up to 10 Kilometer Distances	Encoders and decoders can be connected via SFP Fiber Transceivers for longer distances. This can be used for screens far from the video sources or for environments requiring fiber connections. Both single mode and multimode fiber is supported.
Automatically Sets IP Addresses for Fast Setup	The RAV-IP encoder and decoders can automatically set their IP addresses via DHCP server or self-configured link-layer addresses for fast initial configuration and installation. Alternatively static IP addresses can be set using the web-based user interface. For larger installations, use our new configuration program to discover and set IP addresses or for integration with AV Control Systems.
Browser Based User Interface	Each encoder and decoder has its own browser-based, user interface which can be used for initial installation and configuration changes.

Simple Control Options

Set Channels with Simple Rotary Channel Switch	The encoder and decoder's channel switches can be used for simple and easy assignment of video inputs to outputs, without complex programming.
Switch Channels with Included Remote Control	To switch channels, use the included remote control, just like your TV remote control at home. Up to 2 second channel switching.
Control A/V Devices Via IR or Serial	AV devices can be controlled via Infrared control or serial interface. Two way Infrared control is available.
USB KVM Control for Computer Devices	USB-based KVM control is available for computer devices. This includes keyboard, mouse and USB drives.
AV Control System Integration	Integration with popular AV Control Systems like AMX and Crestron is now available. RAV-IP's control system drivers and new configuration program are available on the Raritan.com support section.