



PYKO-out Stereo IP Audio decoder

Key Workflow: audio over IP decoder for entry range studio to transmitter links (STL), as well as paging, background music, and live announcement applications

At a glance

PYKO-out is a small form factor rack-mountable stereo IP audio decoder. It features two balanced analog mono outputs and a USB port for storing local playlists on a USB memory stick. It decodes standard RTP streams in G711, G722, PCM, MPEG L3, or AAC-LC and HE AAC audio formats and allows for auxiliary data tunneling (serial data, and 4 GPI statuses). PYKO-out also offers three decoding priorities with automatic failover, and can be remotely controlled through ASCII commands sent through TCP.

- > Stereo IP audio decoder
- > Decoding of standard RTP streams and WEB radio streams (Icecast/Shoutcast)
- > USB port for storing local playlists on a USB memory stick for local backup
- > Three decoding priorities with automatic failover
- > Control and monitoring through WEB pages, ASCII commands over TCP, and monitoring via SNMP

Key features

- > Two balanced analog outputs (+18 dBu)
- > One 10/100 Mbps Ethernet RJ-45 port
- > Supports the following audio formats: G711, G722, PCM, MPEG L3, and AAC-LC and HE AAC at 32 kHz
- > Standard RTP streaming, or Icecast/Shoutcast
- > Auxiliary data tunneling (serial data through RS232 port, 4 GPIOs)
- > Unicast, multicast, multi-unicast and multi-multicast (up to six destinations)
- > Configuration and monitoring from WEB pages, or through ASCII commands via TCP
- > Possibility to start/stop the stream via GPIOs
- > Front panel headphones mini-jack
- > External power supply



Configuration

- > Size 140mm x 41mm x 145mm (3 in a 1U rack)
- > Weight 434 g 477 g
- > Operating temperature / humidity: 0°C to 55°C / 0% to 70% relative humidity, non condensing
- > Power supply : 24VDC +/-20%

Outputs

- > Analog line outputs: 1 stereo
- > Maximum output level / impedance: +4 dBu / +18 dBu / < 100 ohms
- > Frequency response : 0/-2 dB <20-20000Hz>
- > THD+Noise: < - 84 dB @ -2dBFS <20-20000Hz>

- > SNR: <- 98 dB <20-20000Hz>
- > Headphone out: 1 (3.5 mm Jack)

Connectors

- > Ethernet Port: 10/100 Mbit Ethernet (RJ45)
- > RS232: subD 9pin male
- > USB: external and internal USB1.1 interface for memory key (FAT16*)
- > GPIO:
 - 4 GPO , 4 independant contact relay,
 - 4 GPI , TTL input 5v/5mA overvoltage and EMC protections

Software, format, protocols

- > IP Stream format: RTP, shoutcast, icecast
- > Audio formats:
 - MP3 (variable bit rates up to 320 kBit)
 - AAC LC, HE-AACv1 (limited to 32 kHz), HE AACv2 (limited to 32 kHz)
 - G.711(μLaw/aLaw at 8 kHz)
 - PCM (16bit at 8 to 48 kHz)

Management

- > html pages via built-in web server
- > TCP/UDP ASCII commands to control the device through the network
- > Audio-ManagerVu middleware

Networks protocols

- > HTTP, TCP/UDP commands, RTP, DHCP, DNS, IGMP

Benefits

- > Low STL entry price, while delivering high audio quality
- > Easy installation and configuration
- > Easy integration into a control application thanks to the ASCII commands protocol

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