

# IN-STREAMER



## MP3 / MP2 Audio Stream DECODER Box over IP

The easiest and cost effective way to create your audio network. Small and compact, completely autonomous audio decoder box. Directly pluggable on the IP network. Easy to install and remotely manageable.

### General Features

- ◆ Distributes audio effectively over existing standard TCP/ IP networks
- ◆ Streaming audio in LANs, WANs or Internet
- ◆ MPEG-Layer II (MP2) decoder, III (MP 3) encoder/ decoder
- ◆ Unlimited number of In-streamer devices in any system
- ◆ Interface to OEM through DLL
- ◆ Multicast or Unicast configuration
- ◆ GPIO for remote control of peripherals and interactivity
- ◆ Balanced audio output available on option



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## Product Overview

In-streamer is designed for reliably reproducing and distributing MP2 and MP3 audio over Ethernet using IP protocols. In-streamer is the professional solution for applications requiring audio to be sent cost-effectively and easily over standard IP Networks covering long distances and/or to multiple locations.

In-streamer supports compressed audio in MP2 (MPEG1

Layer II) and MP3 (Layer III) formats. NS1 is ideal for audio transmission, live sound and streaming in standard IP/Ethernet networks.

In-streamer applications can be user designed to control all units linked to external equipment with the factory supplied OEM library (DLL). Fully programmable routing control permits sending audio to any In-streamer or multiple groups of In-streamer's.

## Applications

- ◆ Over-IP receiver for broadcast internet radio with optional interactivity, opinion polling terminal ...
- ◆ Information and public address for airports, bus and railway terminals, sports arenas, outdoor theaters, cruise ships, ...
- ◆ Combined sound distribution system, public address and emergency evacuation control, ...
- ◆ Zoned sound reinforcement for boardrooms, lecture halls, museums, auditoriums, ...
- ◆ Global audio distribution via TCP/IP and UDP, multi-channel audio over standard IP Network ...
- ◆ Central operation in crisis and control centers, tunnel control centers, parking surveillance centers, ...
- ◆ Background music/paging for theme parks, hotels & convention centers, shops, ...
- ◆ Advertising networks for shopping malls, supermarkets, fairs, conventions, large factories, ...
- ◆ Emergency evacuation control for schools and universities, stadiums, hospitals, ...

## Technical specifications

### AUDIO

**Format:** (TX) MPEG1/2-Layer III (RX) MPEG1/2-Layer II and III for UDP (raw) audio streaming

**Bit rate encoding:** VBR from 32 to 192 Kb/sec (MPEG1-L3), from 8 to 160 Kb/sec (MPEG2-L3)

**Sampling frequency:** 16/22,05/ 24/32/44,1/48 Khz

**Mode** mono and stereo

**Bit rate decoding:** from 32 to 384 Kb/sec (MPEG1-L2), from 32 to 320 Kb/sec (MPEG1-L3), from 8 to 160 Kb/sec (MPEG2-L2/3)

**Sampling frequency:** 8/11,025/ 12/16/22, 05/24/32/44, 1/48 Khz

**Mode:** stereo, joint stereo, dual channel, single channel

**Audio Out :** line level on 3.5 mm jack connector

line level balanced output on terminal blocks (optional)

**Frequency response** 20 - 20.000 Hz (+/- 3 dB)

**Signal to noise:** ratio > 94 dB

**Crosstalk:** >80 dB

**THD** 0,003%

**NETWORK:** Interface RJ45 female connector full duplex IEEE 802.3 10/100 Mb/s protocols UDP (raw) encoding/decoding, HTTP (TCP) only decoding

**REMOTE CONTROL:** Via internet, local ethernet network by Software or API

**POWER REQUIREMENT:** 12/24V DC or AC 90 mA (6 mm coaxial connector)

Power Supply Unit included

**DIMENSION:** 110 x 80 x 30 mm



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