



The Most Efficient **LIVE** Audio/Video  
Transmission Over IP Networks

# STREAMRON IPTV GATEWAY



**Nevron**  
We make IPTV happen



# Streamron IPTV Gateway

The Streamron IPTV Gateway enables the capture of live audio/video streams from DVB-S2, DVB-S, DVB-T or DVB-C, ATSC, IP networks and various types of analogue sources, if necessary encoding these streams to MPEG2, MPEG4 (H.264), MP2, MP3, AAC and AC3 audio/video output formats and transmitting them over an IP network in multicast (one-to-many) communication mode.

The specially designed Streamron architecture and algorithms enable the most efficient transmission of audio/video content over IP networks, even on low-specification hardware platforms.

Support for off-the-shelf servers and A/V tuners allows case by case product assembly according to the particular IPTV project needs and budget. The number of A/V tuner cards is in most cases defined by the particular project needs in order to minimize the project costs and maximize product efficiency.



## Product Components

- Streamron IPTV Gateway software
- network server
- DVB A/V tuner cards (S, S2, C, C2, T, T2) (receive A/V signals from the source (satellite, terrestrial, cable, etc.) and transmit them over an IP network)
- analogue capture cards
- CI modules (DVB-CI modules enable communication between DVB tuner cards and CAM modules)
- CAM modules (Smart cards allow encrypted content to be viewed on digital video devices)



*"The most efficient streaming capabilities."*

*"An indispensable part of any IPTV ecosystem."*

Audio/video sources are captured and processed using standard off-the-shelf tuner cards. The Streamron DVB to IP gateway supports the capture and transmission of FTA (free to air) or non-FTA video sources.

*"Exceptional modularity options."*

# Technical Specifications

## Management & monitoring

- Web management
- Dedicated Streaming NIC
- Link Aggregation (bonding)

## Live Streamer Features

- EPG (EIT) Pass-Through (Electronic Program Guide)
- Teletext Pass-Through
- Track (PID) Filtering
- EIT to XMLTV Converter
- CAM Support (DVB-CI)

## Live Streamer Input - capture sources

- DVB-S (digital satellite)
- DVB-S2 (digital satellite)
- DVB-C (digital cable)
- DVB-C2 (digital cable)
- DVB-T (digital terrestrial)
- DVB-T2 (digital terrestrial)
- ATSC (digital satellite, terrestrial, cable)
- Analogue TV capture cards (composite, S-video, antenna - RF in UHF/VHF range)
- FM Radio cards
- LAN and WAN networks (ShoutCast and IceCast audio streams, MMS and Motion JPEG (M-JPEG) formats)
- Transport Stream over UDP socket (IPTV streams)

## Output media formats

- MPEG-2 Transport Stream (different codecs)
- UDP or RTP
- Unicast or Multicast

## Supported Codecs

- MPEG-2 Video
- MPEG-4 AVC (H.264) Video
- AC3 Audio (Dolby)

- AAC Audio
- MPEG-1 Audio
- MPEG-2 Audio (MPEG-2/4)

## Video standards

- MPEG-2 Video
- H.264/AVC (MPEG-4 Part 10)
- HD TV formats: 720p, 1080i, 1080p
- SD TV Formats: PAL, NTSC, SECAM

## Audio standards

- MP2 (MPEG-2 Audio)
- MP3 (MPEG-1 Layer 3)
- AC3 (Dolby Digital)
- AAC (MPEG-2 Part 7 / MPEG-4 Part 3)

## Network standards

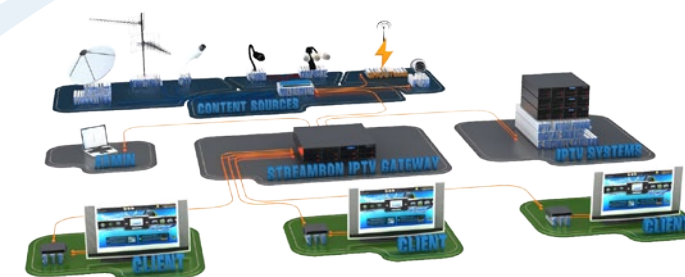
- UDP
- RTP
- IGMP

## Other standards

- MPEG-2 Transport Stream
- DVB Common Interface (EN 50221)
- DVB Service Information
- DiSEqC (Satellite Multi-Switch)

## Physical IPTV Gateway Server

- up to 18 slots for a/capture cards
- up to 36 a/v tuners
- third party physical servers
- 2 Ethernet interfaces (for system management and streaming)
- Linux OS



Streamron IPTV Gateway System Architecture





## Apply for a DEMO Kit

The Nevron DEMO Kit is composed of all the essential product components that are needed for a thorough evaluation of the Streamron IPTV Gateway.



# Nevron

We make IPTV happen

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## Technological Advantages

- great live streaming performance
- exceptional product modularity
- high video quality support
- based on Linux OS
- off-the-shelf HW components

*"SOFTWARE version  
also available."*

## Applicable Projects/Parties

- IPTV middleware
- digital signage
- video surveillance
- telecommunication (Telco)
- ISP, OTT, TV
- IT system integration
- advertising

## Get a FREE IPTV Project Consultation

You are invited to apply for a free IPTV Project Consultation.

