

# iXanon | IPTV-streamer

## Features



### Input interfaces

DVB-S, S2  
DVB-T, T2  
DVB-ASI  
HDMI  
Web pages (html and javascript)  
Web radio  
CAM support using CI modules

### Output interface

2 x 100/1000 Base-T ports  
Unicast/Multicast transportstream output  
QAM/COFDM mux output

### Chassi

19" Industrial grade system  
Up to 12 input modules per chassi  
SSD flash  
Automatic restart on power cycle  
Option: Redundant power supply

### Management

Commandline interface  
Web based interface  
EPG data

**Ixonon provides professional & reliable equipment for transmission of digital TV signals in miscellaneous environments.**

### Function

IxStream is a unicast/multicast head-end streamer for IP-TV distribution. The streamer receives media on its input interfaces and sends it out as "single program" MPEG-2 transport streams on the IP network. The output streams can be displayed by standard set-top boxes and software media players.

### Modular

The streamer is highly modular and can be equipped with many type of interfaces, such as satellite, terrestrial, asi, hdmi, ip, web pages and files.

### System

The streamer is running an Ixonon Gnu/Linux OS which makes it a perfect choice for operators that needs a flexible and robust system ready to meet future demands.

### Hardware

The system is built on an rack-mount 19" chassi and industrial grade components to provide for reliable operation.

### Management

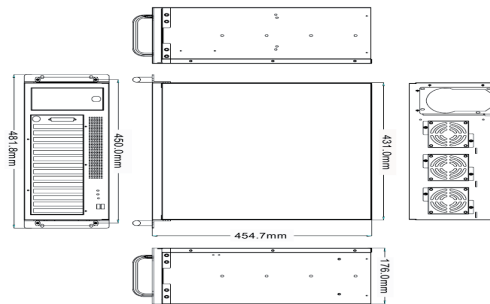
The system provides connectivity through the standard console or SSH. The streamer service is managed by command-line tools or by the built-in web interface.



# Module specifications

## Chassi

Construction: Heavy duty metal  
2 x 8 cm cooling fans  
12 expansion slots  
0 - 50 C operating temperature  
10% - 80 % Humidity  
Dimensions (DxWxH): 454.7 mm x 431 mm x 176 mm  
RoHS compliance  
Front accessible I/O slots  
Voltage: 110/240 V AC or 48 V DC



## Dual DVB-T/T2 - Input

Antenna input; IEC female,  
VHF/UHF support (47-862 MHz)  
7/8 Mhz channel bandwidth  
QPSK and QAM 16/64 demodulation  
COFDM 2k and 8k  
Guard interval modes: 1/32, 1/16, 1/8, 1/4  
Automatic FEC selection [1/2, 2/3, 3/4, 5/6, 7/8]

## Dual DVB-S - Input

Frequency range: 950 - 2150 MHz  
RF input level: -69 up to -23 dBm (IEC f-type female)  
Symbol rate up to 45 Msymbols/s  
QPSK with supported rates 1/2, 2/3, 3/4, 5/6, 6/7, 7/8  
Viterbi soft decoder rate 1/2  
Outer Reed-Solomon decoder as per DVB-S system  
Up to 60 Mbps channel bit rate  
Band selection: 22 KHz  
Polarity selection: 14/18 V  
Tone burst mode  
DiSEqC 1.0  
LNB current support max 400 mA



# Module specifications

## Dual DVB-S2 - Input

Frequency range: 950 - 2150 MHz  
RF input level: -69 up to -23 dBm (IEC f-type female)  
QPSK/8PSK 1~45 Msymbols/s  
QPSK with supported rates 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10  
8PSK with supported rates 3/5, 2/3, 3/4, 5/6, 8/9, 9/10  
LDPC and BCH decoder as per DVB-S2 requirements  
Band selection: 22 KHz  
Polarity selection: 14/18 V  
Tone burst mode  
DiSEqC 1.0  
LNB current support max 400 mA

## Quad HDMI - Input

Signals: 4 x HDMI  
Composite video and Component can be used through converter  
Video format: H264 / mpeg

## Web pages - Input

Playlist configuration  
Pages can be located on web server or locale filesystem  
Html and javascript format  
Encoded to mpeg2 transport stream

## Web radio - Input

Connect to webradio sites.  
Encoded to mpeg2 transport stream.

## Ethernet - Input / Output

100/1000 Bast-T  
QoS set by configuration (IP TOS field)

## Modulator / Remultiplexer - Output

DVB-C QAM modulator compliant to DVB-C (EN 300 429) and ITU-T j.83 Annex A, B, C.  
DVB-T COFDM modulator compliant to EN 300 744.  
Integrated UHF upconverter 47 - 862 MHz.  
RF Output level: -29 dBm, 20 dBmV

