

# IP Transceiver Encoder to Decoder - Video over IP

Products – [Video Encoder Q7 Q8 4G HDMI SDI Video Encoder](#)  
[Video Decoder](#) (with nginx-rtmp-module embedded)

## Solutions

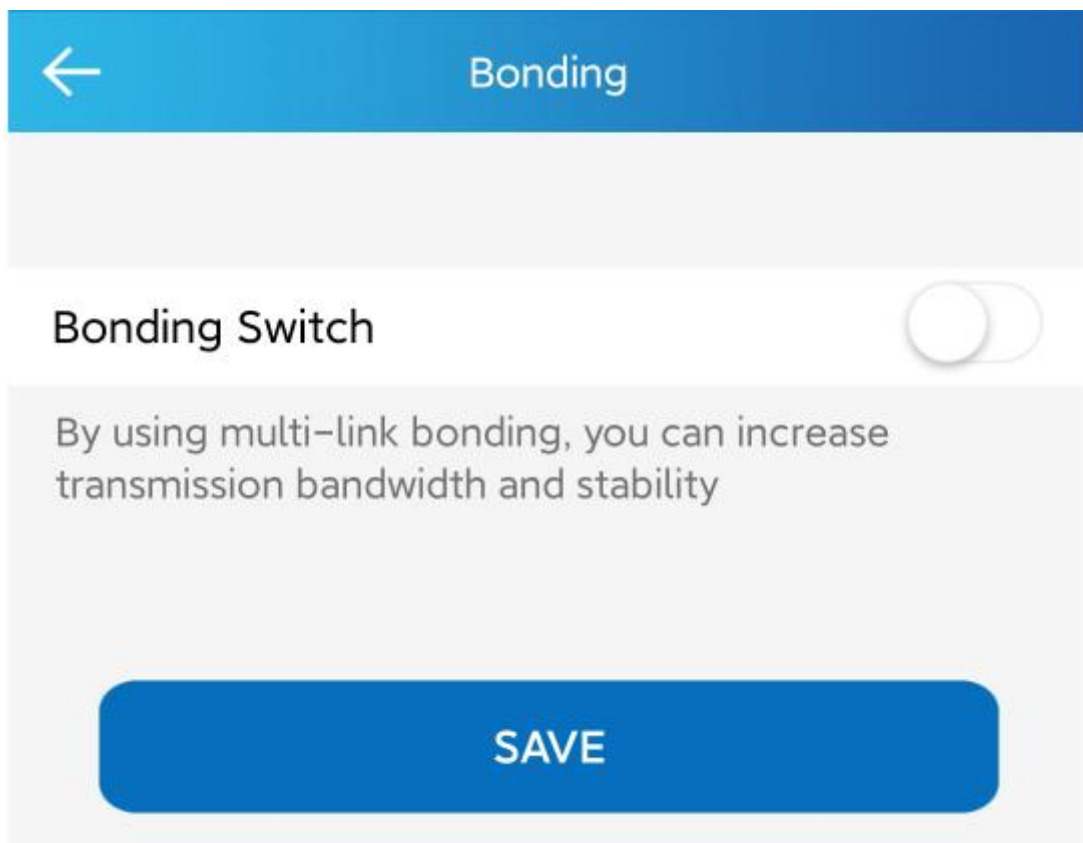
1. **Page 1 -4**, Encoder (IP Streamer) with Decoder in same LAN, Encoder connects by WiFi/RJ45 network.
2. **Page 4-8**, Do port forwarding for Decoder. Encoder connects internet by 4G SIM cards/ via bonding server & Decoder located in another city.
3. **Page 8**, Can't do port forwarding for Decoder.  
Encoder sends Live Stream to 3<sup>rd</sup> party stream media server (such as Wowza, Akamai...)  
Decoder get stream from the 3<sup>rd</sup> stream media server.

## How to do...

1. [Encoder \(IP Streamer\) with Decoder in same LAN, Encoder connects with WiFi/RJ45 network.](#)

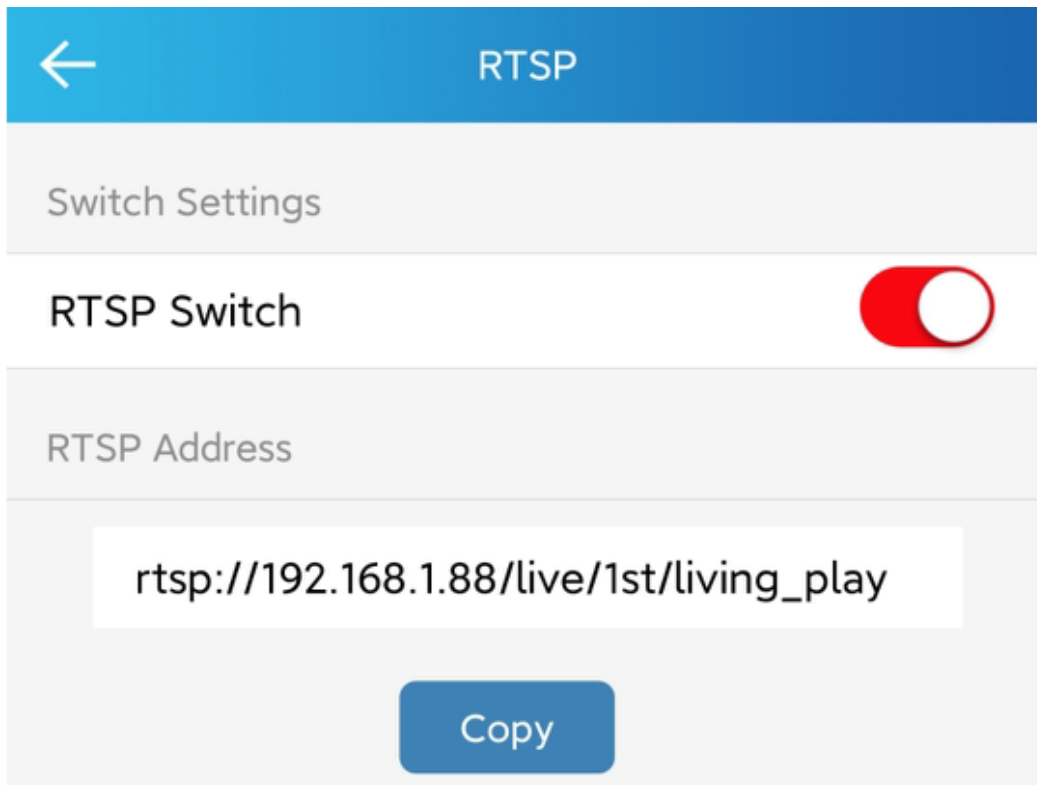
### 1.1 Mlive Settings - Encoder - Q7/Q8

For Q8- Need to **disable the bonding settings** click MLive [More-Video and audio settings-Bonding](#),



## 1.2 Encoder - Decoder settings with RTSP

Click MLive More – Network Protocol - RTSP



← RTSP

Switch Settings

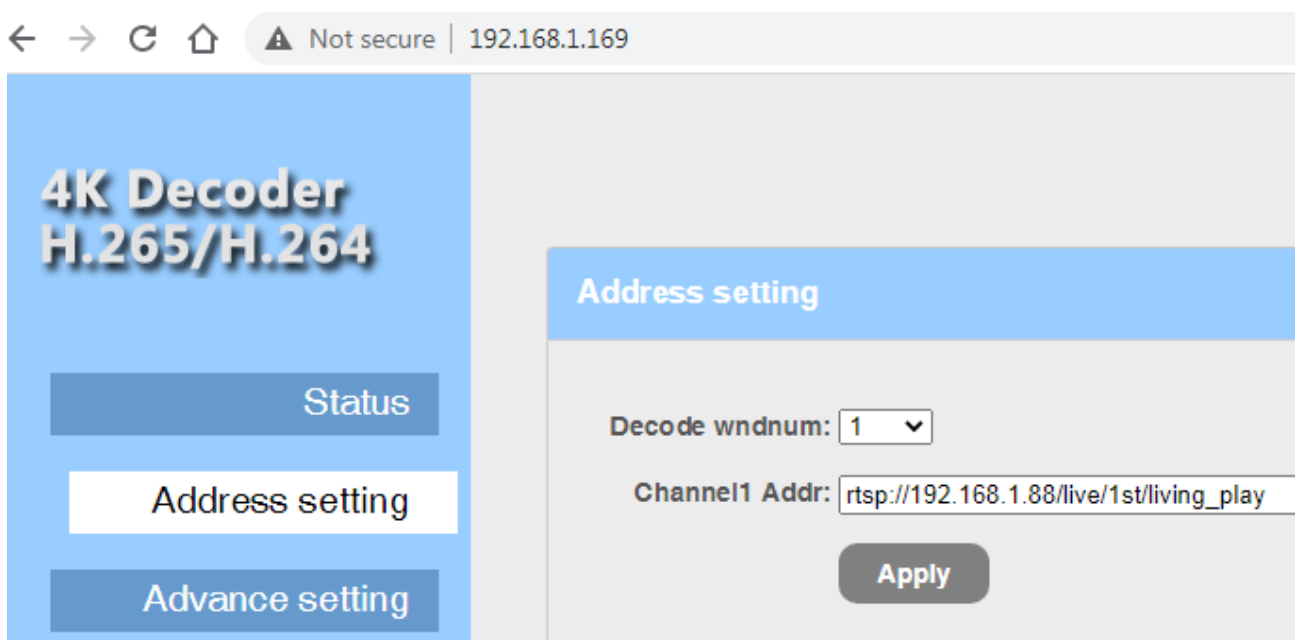
RTSP Switch

RTSP Address

rtsp://192.168.1.88/live/1st/living\_play

Copy

Copy the rtsp url to the Decoder play address,



← → ↻ 🏠 ⚠ Not secure | 192.168.1.169

**4K Decoder  
H.265/H.264**

Status

Address setting

Advance setting

Address setting

Decode wndnum: 1 ▾

Channel1 Addr: rtsp://192.168.1.88/live/1st/living\_play

Apply

### 1.3 By RTMP to Decoder,

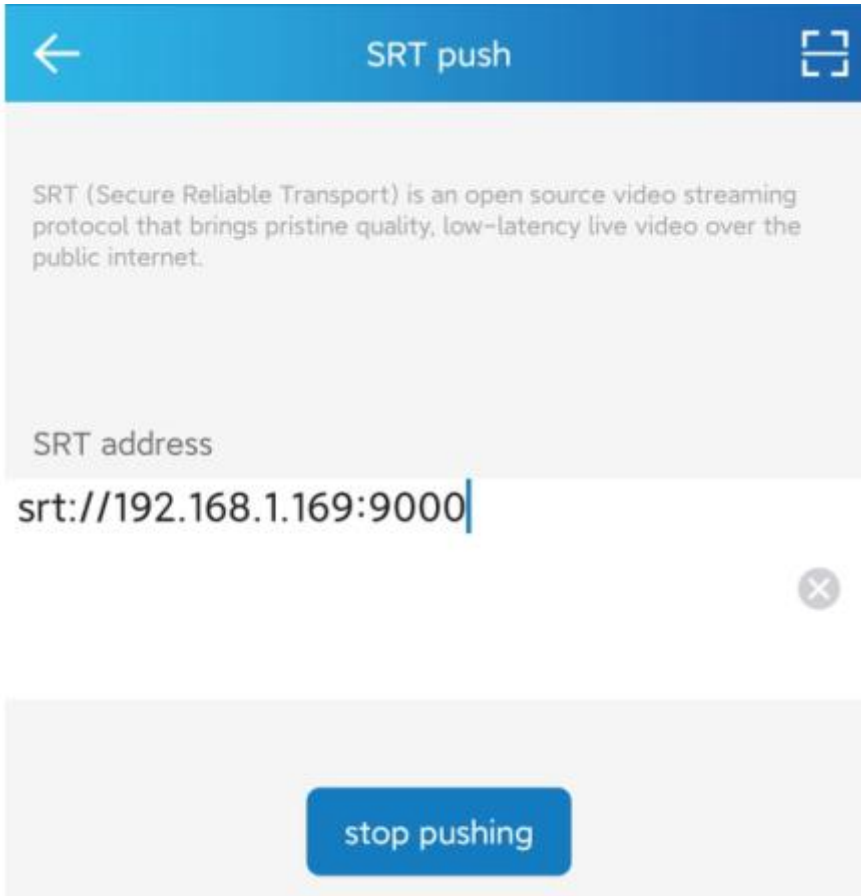
Encoder push rtmp to Decoder, 192.168.1.169 is the decoder IP, app name must be live, stream name q8todecoder, and you can set it as you want, such as test.

The screenshot shows a mobile application interface for RTMP push. At the top, there is a blue header with a back arrow, the text "RTMP push", and a square icon. Below the header, there are three service icons: "RTMP push" with a checkmark, "blws" with a refresh icon, and "AoDianYun MCS" with a refresh icon. A section titled "Recent push address" contains a list of RTMP URLs: "rtmp://192.168.1.169/live/q8todecoder", "rtmp://192.168.1.169/live/test1", "rtmp://192.168.1.169/live/test", and "rtmp://192.168.1.170/live/test". Below the list, there is a note: "This list defaults to the latest push stream address. For more settings, please enter the address book operation". Underneath, there is a field for "RTMP URL" with the value "rtmp://192.168.1.169/live/q8todecoder". Another field for "Stream Name/Key" has the value "Do not fill". At the bottom, there is a radio button labeled "Need authentication" and two buttons: "Save address" and "stop pushing".

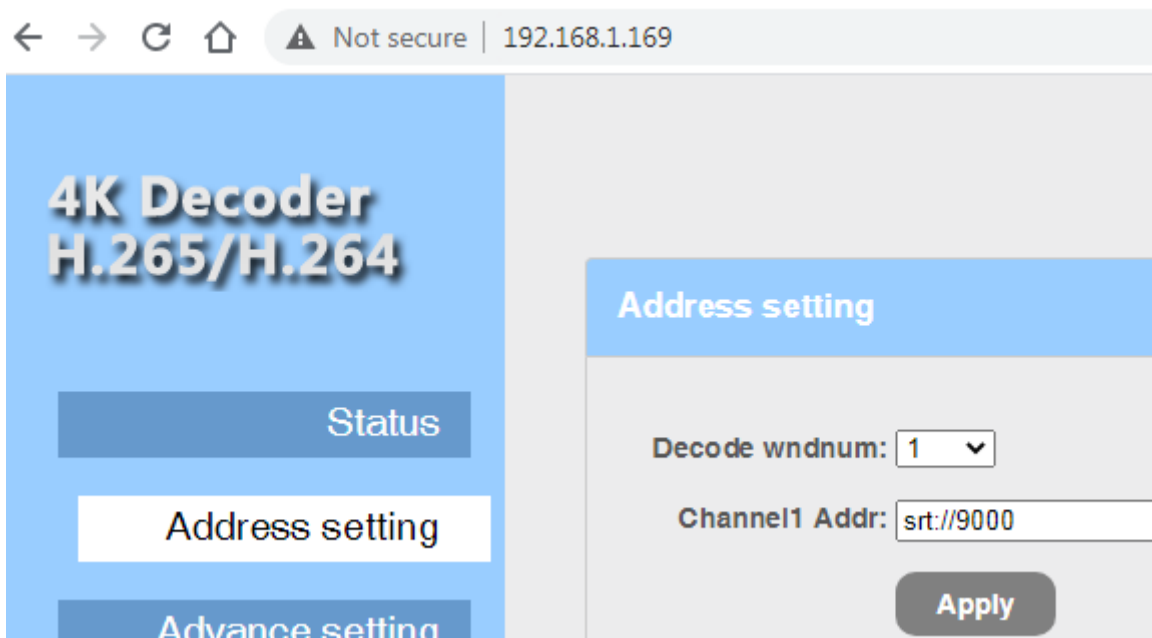
Decoder Settings – Decoder stream name keep same as the Encoder's.

The screenshot shows a web browser interface for the "4K Decoder H.265/H.264". The browser address bar shows "192.168.1.169". On the left side, there is a navigation menu with four items: "Status", "Address setting" (which is highlighted), "Advance setting", and "System setting". The main content area is titled "Address setting" and contains the following fields: "Decode wndnum:" with a dropdown menu set to "1", and "Channel1 Addr:" with a text input field containing "rtmp://127.0.0.1/live/q8todecoder". Below these fields is an "Apply" button.

1.4 SRT settings - Q8 Q8 works as caller, 192.168.1.169 is the decoder IP



Decoder Settings – Decoder url srt://port or srt://@port





## 2.2 Push RTMP from Encoder to Decoder,

Encoder push rtmp to Decoder, **113.104.237.34** is the decoder IP, app name must be live, stream name q8todecoder, and you can set it as you want, such as test.

The screenshot shows a mobile application interface for configuring RTMP push. At the top, there is a blue header with a back arrow, the text "RTMP push", and a QR code icon. Below the header, there are three service providers: "RTMP push" (with a checkmark), "POLYVIZOR blws" (with a refresh icon), and "AoDianYun MCS" (with a refresh icon). A section titled "Recent push address" includes a location pin icon and the text "address book...". Below this is a list of four RTMP URLs, each preceded by "RTMP |". The first URL is selected. Below the list, there is a note: "This list defaults to the latest push stream address. For more settings, please enter the address book operation". The "RTMP URL" field contains "rtmp://113.104.237.34/live/q8todecoder". The "Stream Name/Key" field contains "Do not fill". At the bottom, there is a radio button labeled "Need authentication" which is currently unselected. Two blue buttons are at the bottom: "Save address" and "stop pushing".

Decoder setting, decoder stream name keeps same as the Encoder's. You can use the localhost (127.0.0.1).

← → ↻ 🏠 ⚠ Not secure | 113.104.237.34:169

# 4K Decoder H.265/H.264

**Status**

**System status**

Runtime: 0000-00-00 00:12:00  
CPU usage: 0%  
Mem usage: 29MB/253MB  
Output format: 1080P60  
Decode wndnum: 1

**Channel1**

Addr: rtmp://127.0.0.1/live/q8todecoder  
Status: Normal  
Frame rate(fps): 60  
Code rate(kbit/s): 4699

### 2.3 By SRT to Decoder

Q8 works as caller, rtmp port 1935 also can be used for SRT 113.104.237.34, then srt push url will be srt:// 113.104.237.34:1935

← SRT push

SRT (Secure Reliable Transport) is an open source video streaming protocol that brings pristine quality, low-latency live video over the public internet.

SRT address

srt://113.104.237.34:1935

stop pushing

Decoder Settings – Decoder url srt://port or srt://@port

The screenshot shows a web browser window with the URL 113.104.237.34:169. The page title is "4K Decoder H.265/H.264". On the left side, there is a navigation menu with four buttons: "Status" (highlighted), "Address setting", "Advance setting", and "System setting". The main content area is titled "Status" and contains the following information:

- System status**
  - Runtime: 0000-00-00 00:13:50
  - CPU usage: 3%
  - Mem usage: 51MB/253MB
  - Output format: 1080P60
  - Decode wndnum: 1
- Channel1**
  - Addr: srt://1935
  - Status: Normal
  - Frame rate(fps): 60
  - Code rate(kbit/s): 5298

3. Can't do port forwarding for Decoder. Encoder Live Stream to 3<sup>rd</sup> party stream media server-Decoder get stream from the 3<sup>rd</sup> stream media server.

The screenshot shows the "Address setting" page. It features a dropdown menu for "decode wndnum" set to "1". Below this, there is a text input field for "channel1 addr" containing "rtmp://myserver-IP:Port/live/Decoder". To the right of this field, there is a radio button for "audio" and a text input field for "cache(ms)" set to "0", with a range "[0-4000]" indicated. A "Set up" button is located at the bottom of the page.