

# 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

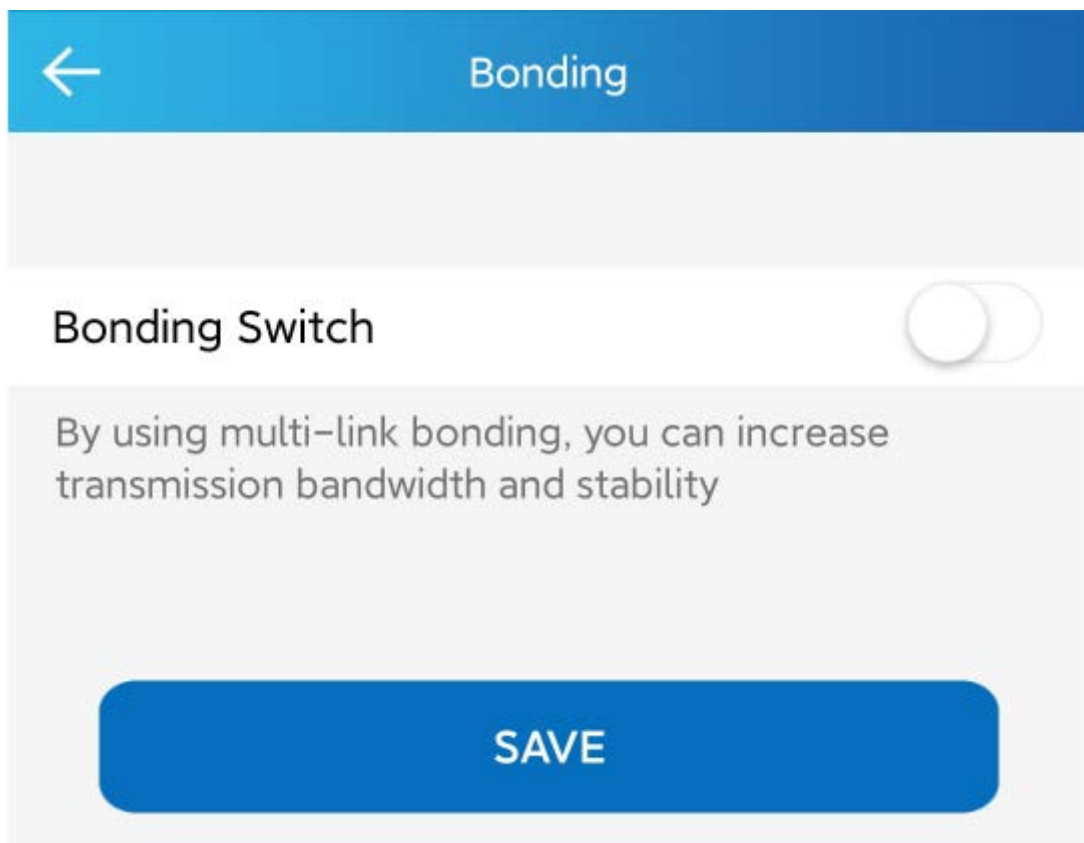
1. **Page 1 -4**, Encoder (IP Streamer) with Decoder in same LAN, Encoder connects by WiFi/RJ45 network.
2. **Page 4-8**, Do port forwarding for Decoder. Encoder connects internet by 4G SIM cards/ via bonding server & Decoder located in another city.
3. **Page 8**, Can't do port forwarding for Decoder.  
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.](#)

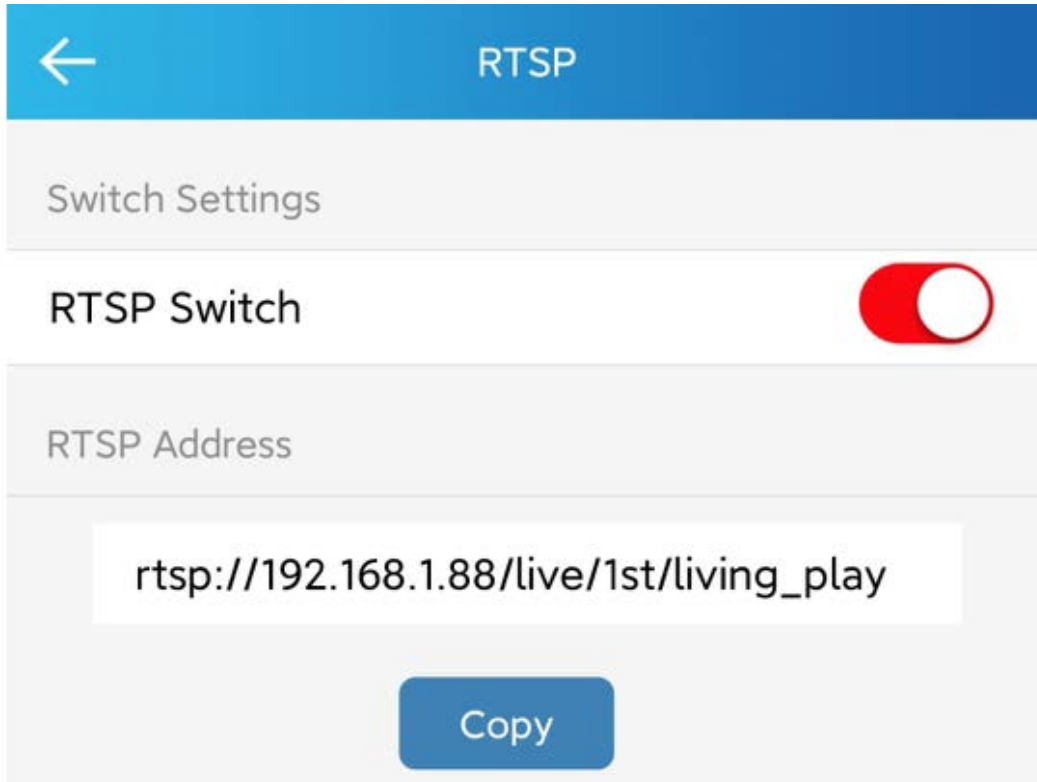
### 1.1 Mlive Settings - Encoder - Q7/Q8

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

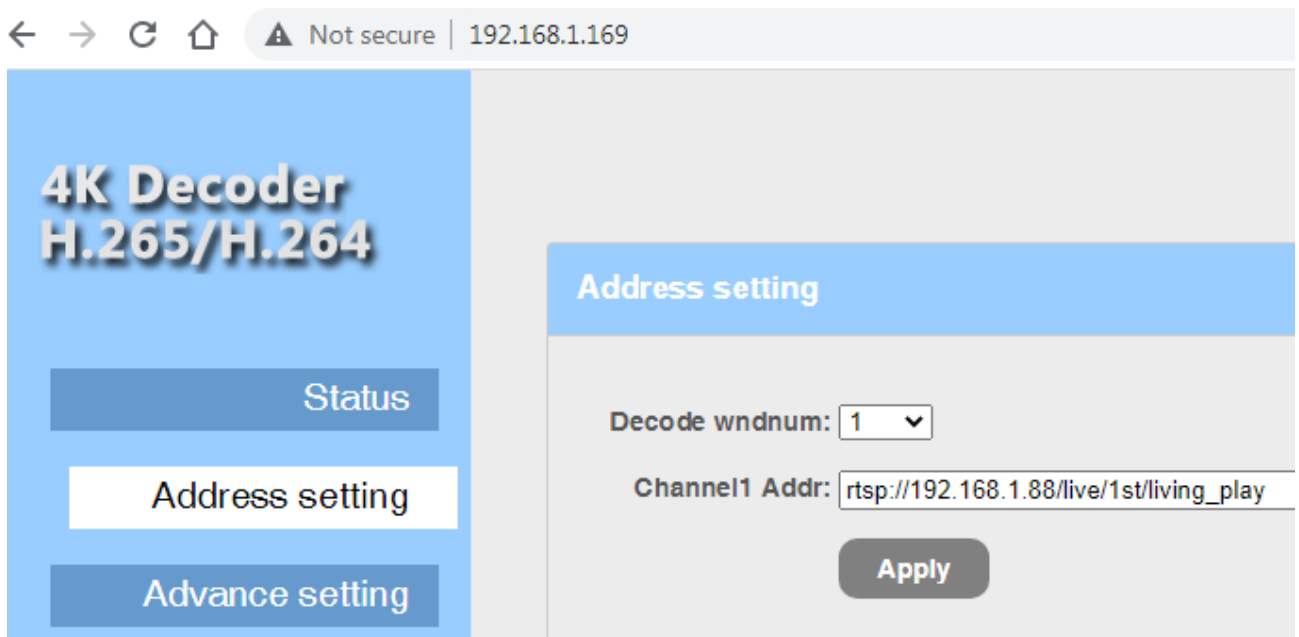
RTSP Switch

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

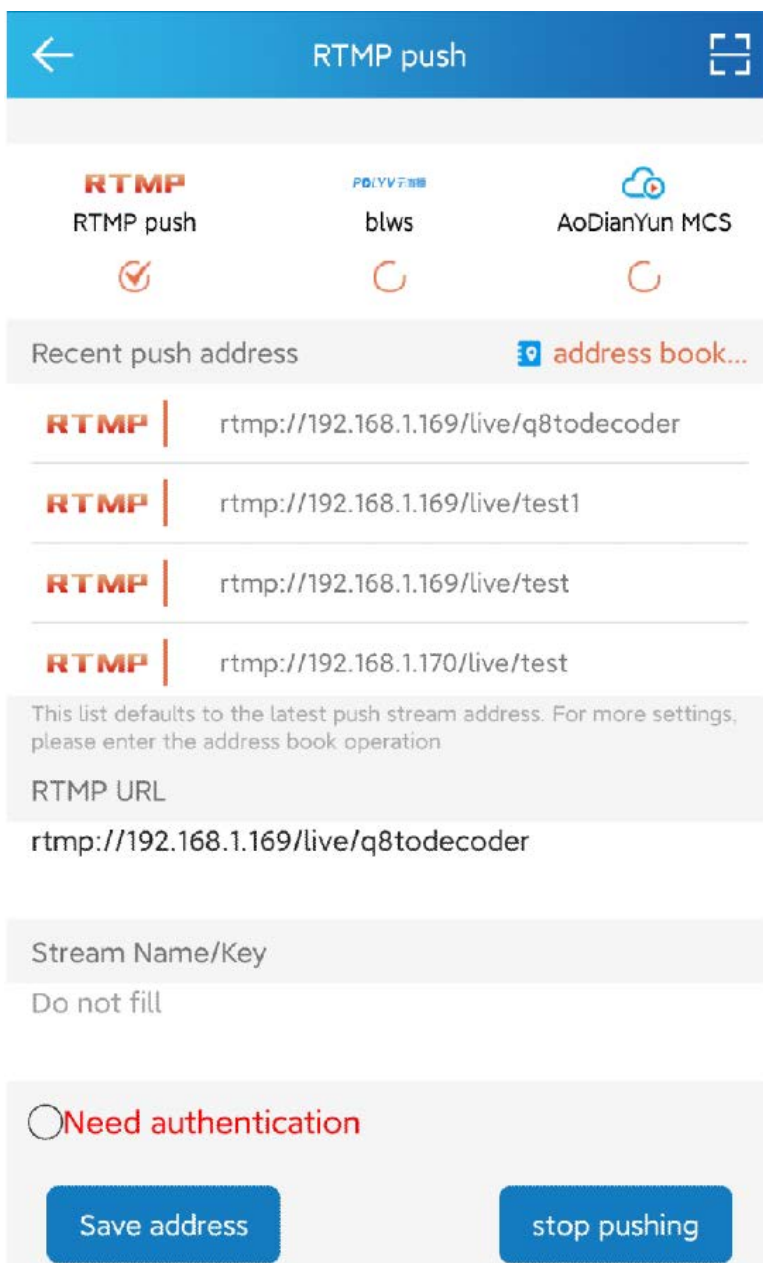
Decode wndnum: 1 ▾

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

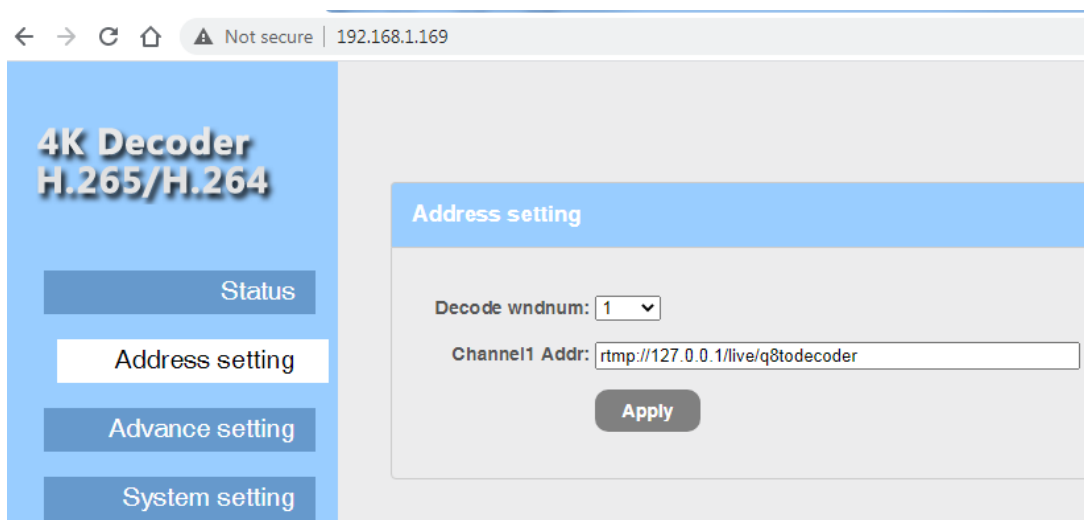
Apply

### 1.3 By RTMP to Decoder,

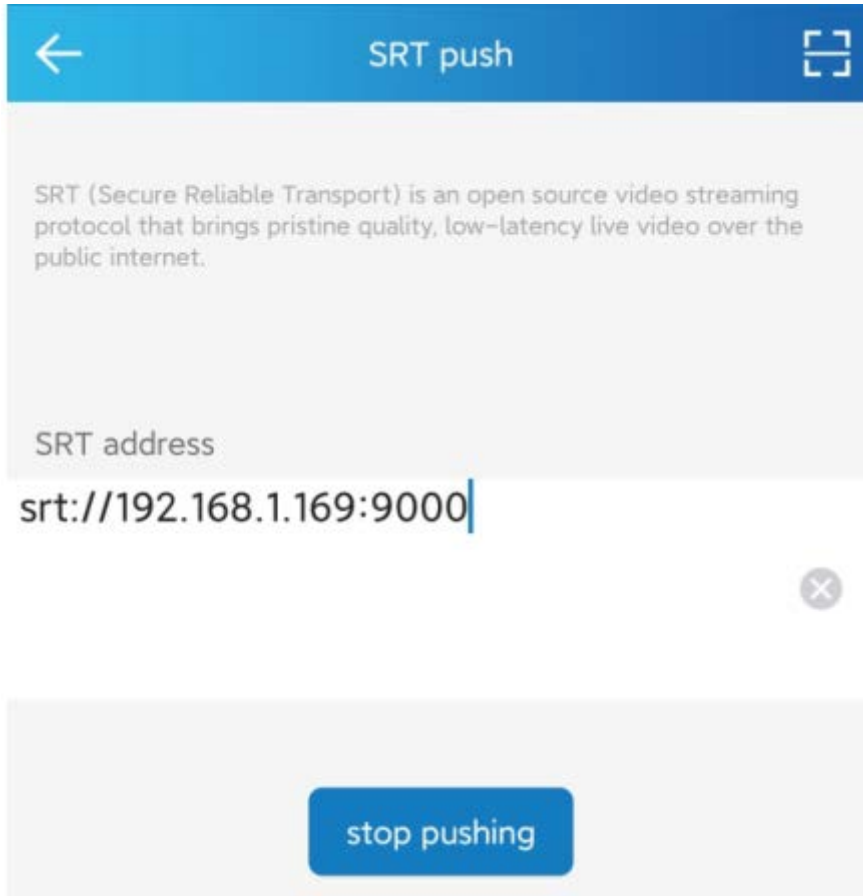
Encoder push rtmp to Decoder, 192.168.1.169 is the decoder IP, app name must be live, stream name q8todecoder, and you can set it as you want, such as test.



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



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



Decoder Settings – Decoder as Listener mode

srt://:port?mode=listener&smoother=live

i.e., **srt://:9000?mode=listener&smoother=live**

or srt://@:9000?mode=listener&smoother

Address setting

Channel number:  ▼

Channel1 URL:

Audio:  Cache(ms):  [0-4000] Pro



## 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 displays the 'RTMP push' configuration screen. At the top, there is a blue header with a back arrow, the title '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 a link to 'address book...'. Below this is a list of four RTMP URLs, each preceded by a red 'RTMP' label and a vertical bar. The first URL is selected. A note below the list states: 'This list defaults to the latest push stream address. For more settings, please enter the address book operation'. Below the note is a field for 'RTMP URL' containing 'rtmp://113.104.237.34/live/q8todecoder'. Underneath is a 'Stream Name/Key' field with the text 'Do not fill'. At the bottom, there is a radio button labeled 'Need authentication' which is currently unselected. Finally, there are two blue buttons: '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 as Listener mode

srt://:port?mode=listener&smoother=live

i.e., **srt://:9000?mode=listener&smoother=live**

or srt://@:9000?mode=listener&smoother

#### Address setting

Channel number:

Channel1 URL:

Audio:  Cache(ms):  [0-4000]

Apply

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.

#### Address setting

decode  
wndnum:

channel1 addr:  audio:  cache(ms):  [0-4000]

Set up