

OnPremise SRT RPi Player

Overview of features and usage of the SRT player for Raspberry Pi

● 1. What is SRT RPi Player?

SRT RPi Player is a software solution that turns a Raspberry Pi (models RPi2, RPi3 and RPi4, including hardware revision 1.5) into a player for H.264 video streams with AAC audio. It is designed to play IP streams over different protocols and to be used mainly as a test player for the OnPremise SRT Server.

● 2. Supported protocols and formats

The player can decode H.264 video with AAC audio at resolutions up to 1080p at 60 fps. It supports the following input protocols: SRT, RTMP, HLS, RTSP and UDP, both unicast and multicast.

● 3. Main features

- Plays H.264/AAC streams up to 1080p60.
- Suitable for RPi2, RPi3 and RPi4 (including rev 1.5; not compatible with RPi1).
- Supports input via SRT, RTMP, HLS, RTSP and UDP (unicast and multicast).
- Includes an integrated ZeroTier client to connect to software-defined private virtual networks.
- Provides an audio-only encoder that can send audio from an external USB sound card over SRT, UDP or RTMP.
- Audio is encoded as AAC for all supported output protocols.
- System updates are quick and easy to apply.
- Stability has been significantly improved in version v1.5.0.

● 4. Audio-only mode (audio encoder)

In addition to the video player, SRT RPi Player includes an audio-only encoder. Using an external USB sound card, it can capture audio and send it encoded as AAC via SRT, UDP or RTMP. This is useful, for example, to send audio return feeds or small IP audio contributions at very low cost.

● 5. Ease of use

Both the player and the audio encoder are managed from a very intuitive web control panel. The idea is that basic configuration can be completed in just a few minutes, without requiring deep Linux knowledge. Once set up, the device is intended to run 24/7 in a stable way.

● 6. Recommended use cases

The vendor clearly states that SRT RPi Player is designed as a test player for validating the SRT server (OnPremise SRT Server). Therefore, its recommended use cases are:

- Testing new contribution or output streams.
- Simple monitoring of SRT, RTMP, HLS, RTSP or UDP signals on a very inexpensive endpoint.
- Technical demos and presentations using low-cost hardware.

● 7. Important warning

The official page explicitly highlights that SRT RPi Player must not be used in production deployments. It is intended only for testing, lab environments and non-critical use cases, where a potential reboot or interruption does not jeopardize the final service.

● 8. Hardware requirements

- Raspberry Pi 2, Raspberry Pi 3 or Raspberry Pi 4 (including hardware revision 1.5).
- Raspberry Pi 1 is not recommended nor supported.
- Optional external USB sound card if the audio-only mode is used.
- Reliable network connection to receive or send IP streams.

● 9. Download and credits

The SRT RPi Player system image is available through the official download link provided by OnPremise SRT. The package is developed and maintained by TodoStreaming (2025), who also offer the OnPremise SRT Server and other professional video-over-IP transport solutions.

In short, SRT RPi Player is a very practical tool for building test players and small monitoring points on Raspberry Pi, with support for multiple contribution and distribution protocols, as well as a flexible and cost-effective audio-only encoder.