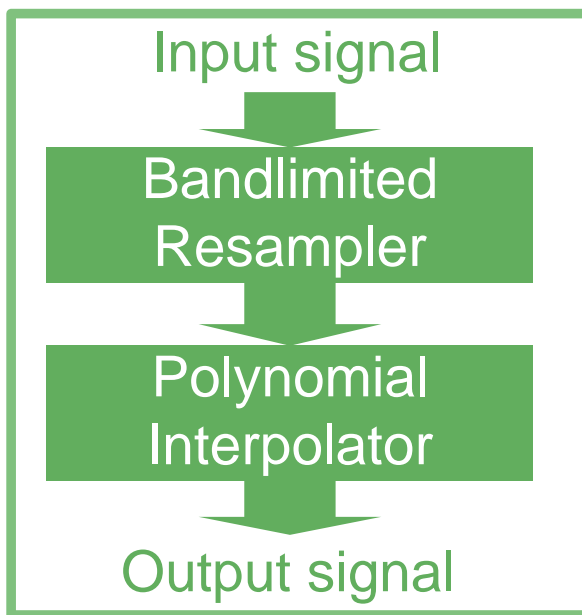


SPiRiT Sampling Rate Converter

Sampling Rate Converter (SRC) is an algorithm used to change audio sampling rate. For example, it can be used to combine software or hardware with different interfaces.

SPiRiT Sampling Rate Converter allows to convert arbitrary sampling rates. The SRC has two optional modules used to vary sound quality and speed.



Benefits

- Human ear perception non-linearity compensation
- Ideal for resource constrained applications
- Easy integration and fast time to market

Applications

- Digital audio players
- Portable media players
- Audio streaming/digital radio
- Set-top boxes
- Mobile phones
- Car electronics

Availability

- ARM Now
- TI C6xx Call
- Starcore Call
- MIPS Call

Features

- Efficient set of algorithms to change audio sampling rate
- Can work with fixed input/output ratio as well as with arbitrary ratio
- Provides flexible trade-off between computational resources and quality

Resource Requirements

PLATFORM	ARM 9E	
	Fast conversion	High Quality Conversion
Alias Attenuation	10 - 20 dB	60 - 90 dB
Peak MIPS	2	31
Total Memory, KB	4.7	4.7

Resources are given for conversion of 44.1 kHz mono signal to 48 kHz.

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