STM32-AUDIO100A

STM32F4 audio processing components

Features

The STM32F4 audio processing components provide the following capabilities:

- Sampling Rate Converter:
  - SRC236 supporting ratios 2, 3, 6, 1/2,1/3, 1/6, 3/2 and 2/3
  - SRC441 for specific 44.1->48 kHz conversion (10 ms framing)
- OmniSurround Stereo Widener:
  - Audio virtualization for a 1.0/2.0 input stream to a widened 2.0 output stream
- OmniSurround Multichannel Virtualizer:
  - Audio virtualization for 5.1/7.1 input stream to a virtualized 2.0 output stream
- Graphical Equalizer:
  - 10-band graphical equalizer for 48 kHz input signal
- Generic Biquad filters
- Bass Manager (including compressor & limiter)
- Smart Volume Control (including compressor)

Description

The audio processing components for STM32F4 consists in a comprehensive set of high-quality efficient software libraries ready to be embedded into many kinds of audio appliances. All modules are delivered with internal 32-bits processing and support either 16 or 32 bits I/O buffers.

www.st.com

Ordering information

STM32-AUDIO100A is available for free download from *www.st.com*.

Revision history

Table 1. Document revision history

Date	Revision	Changes
23-Jan-2015	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY