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TEF664X: Highly efficient low IF radio one-chip

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Overview

The TEF6640, TEF6642, TEF6644 and TEF6646 are single-chip radio ICs containing an AM/FM radio tuner and software-defined radio signal processing.

The TEF6644 and TEF6646 are the premium versions that include the full available feature set. The TEF6640 and TEF6642 are the lite versions including a basic feature set.

The radio receiver includes the AM/FM front ends, tuning synthesizer, channel filtering, FM multipath improvement, demodulation, FM stereo decoding, weak signal processing, noise blanking and Radio Data System (RDS) reception. A maximum amount of digital signal processing is used, taking full advantage of the CMOS IC technology.

The output signals of the radio processing block are provided in digital format on the host I²S output (only TEF6642 and TEF6646) and in analog format on the audio DAC outputs.

The TEF6642 and the TEF6646 support the digital standards HD Radio and Digital Radio Mondiale (DRM) in combination with NXP terrestrial digital radio coprocessors such as SAF356x.

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