

RSC-4x Series

RSC-4x Family of Speech Recognition and Synthesis Microcontrollers

The **RSC-4x** family represents Sensory's next generation speech processors designed to bring advanced audio features to cost sensitive embedded and consumer products. Based on an 8-bit microcontroller, the RSC-4x family integrates speech-optimized digital and analog processing blocks into a single chip solution capable of accurate speech recognition as well as high quality, low data-rate compressed speech. Products can use one or all features in a single application.

The **RSC-4x** family supports FluentChip™ technology, which includes advanced algorithms that add features and increase accuracy. In addition to the improved recognition performance, the RSC-4x family provides further on-chip integration of features, including a microphone preamplifier, twin-DMA units, vector accelerator, hardware multiplier, 3 timers, and up to 4.8 Kbytes of RAM. A complete system may be built with minimal additional parts other than a battery, speaker, microphone, and a few resistors and capacitors.

Two ROM configurations of the RSC-4x are currently available. The RSC-4128 sports 128 Kbytes of ROM, and is recommended for all applications. In applications that require less duration of speech or smaller command sets, the RSC-464 offers 64 Kbytes of ROM and is recommended for cost savings.

* [Programming and Development Tools](#)



