

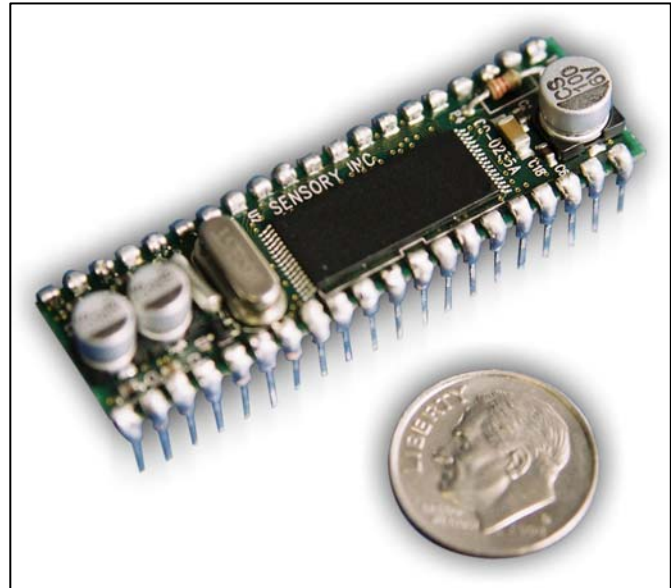
With the **VR Stamp™** from Sensory, you can now add voice recognition (VR), speech output, and music and touch-tone synthesis to any product imaginable.

With its standard 40 pin DIP footprint, full suite of development tools and Sensory's world-class **FluentChip™** firmware technologies, the VR Stamp will change the way you think about speech recognition.

Based on Sensory's award-winning RSC-4x Family of microcontrollers, the VR Stamp is a completely modularized speech recognition system that allows products to speak and hear with minimal development time and low system cost.

Description

VR Stamp simplifies the integration of speech recognition into products by combining all key components into a small 40-pin DIP footprint module. A low-noise audio channel and standardized packaging allow rapid prototyping, less debugging and shorter time to market. Using the VR Stamp Toolkit, application programs can be downloaded into the VR Stamp. The VR Stamp can then be removed from the VR Stamp Programmer and plugged directly into the final product. The VR Stamp offers 24 I/O lines, as well as connections for a power, ground, microphone, speaker, and logic-level RS232 interface.



Features

FLUENTCHIP™ TECHNOLOGY CAPABILITIES

- ▶ Noise-robust Speaker Independent (SI) and Speaker Dependent (SD) recognition
- ▶ Many language models now available for international use
- ▶ High quality, 2.4-10.8 kbps speech compression & sound effects with Sensory's "SX" speech output technology
- ▶ Speaker Verification (SVWS) - Noise robust voice password biometric security
- ▶ 8 voice MIDI-compatible music synthesis and Touch Tone (DTMF) synthesis
- ▶ Low power Audio Wakeup from sleep

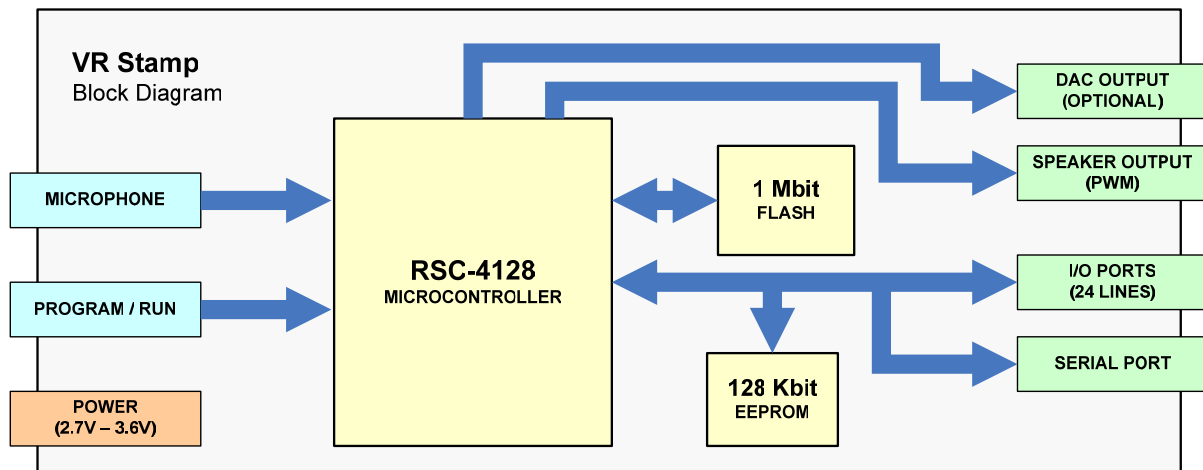
INTEGRATED SOLUTION

- ▶ RSC-4128 Speech processor & 1Mbit Flash
- ▶ 128Kb serial EEPROM for data
- ▶ 14.3MHz (main) & 32KHz (time keeping) clocks
- ▶ 24 I/O lines
- ▶ Microphone preamplifier
- ▶ Pulse Width Modulator (PWM) for Speaker
- ▶ Optional DAC output

LOW POWER REQUIREMENTS

- ▶ $V_{DD} = 2.70V - 3.6V$
- ▶ $I_{ACT} = 26mA @ 3V$
- ▶ $I_{SLEEP} = <20uA @ 3V$



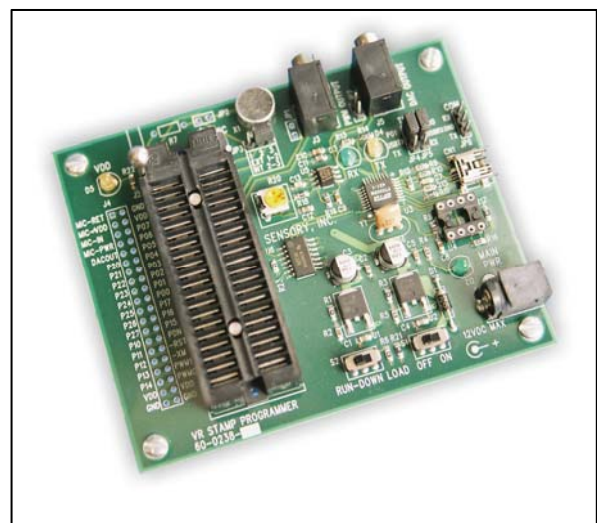


VR Stamp Toolkit

The VR Stamp Toolkit contains everything necessary (2x VR Stamps, VR Stamp Programmer board, highly efficient speech tools, C Compiler) to program the VR Stamp to your specifications.

The VR Stamp Toolkit includes best-in-class tools and technologies for speech and music. Quick T2SI-Lite allows the developer to type in recognition vocabularies, and within minutes have recognition sets running. Similarly, Quick Synthesis™ 4 allows recordings of speech to be compressed quickly with the right combination of size and quality. All the amazing technologies in the FluentChip library are available (with the exception of R & P due to memory constraints).

The VR Stamp Programmer allows you to connect the VR Stamp to a PC for downloading your application after it has been written and compiled.



THE VR STAMP TOOLKIT ALLOWS YOU TO:

- ▶ Download an application program from the PC to VR Stamp using the VR Stamp Programmer
- ▶ Develop VR Stamp applications
- ▶ Sample key Sensory speech technologies
- ▶ Demo common speech applications

THE PACKAGE CONTAINS:

- ▶ Quick T2SI™ Lite CD
- ▶ FluentChip and Quick Synthesis 4 CD
- ▶ VR Stamp Tools CD
- ▶ VR Stamp with Serial EEPROM version (2 units)
- ▶ VR Stamp Programmer Board
- ▶ 120v Power Supply
- ▶ Speaker
- ▶ USB Serial Cable
- ▶ Python C Compiler CD and Dongle

