

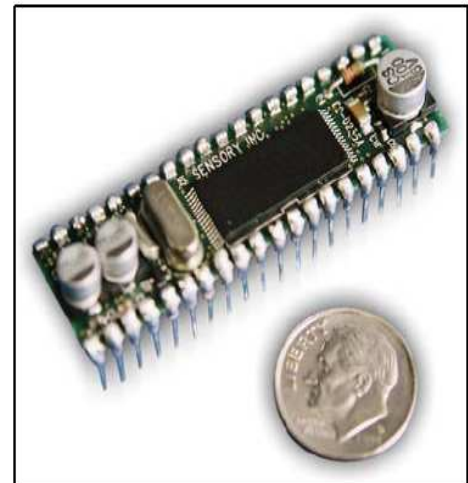


VR STAMP™ WITH SERIAL EEPROM VOICE RECOGNITION MODULE

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

The VR Stamp is the first rapidly deployable speech module to use Sensory's proprietary **Quick T2SI™** (text to speaker independent) technology, which allows developers to create working recognition sets in minutes. Multiple languages are supported, making the VR Stamp useful for products virtually anywhere in the world.

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



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. The VR Stamp offers 24 I/O lines, as well as connections for a power, ground, microphone, speaker, and logic-level RS232 interface. With its small size, full suite of development tools and Sensory's world-class **FluentChip™** Technologies, the VR Stamp will change the way you think about speech recognition.

FEATURES

FLUENTCHIP TECHNOLOGY CAPABILITIES

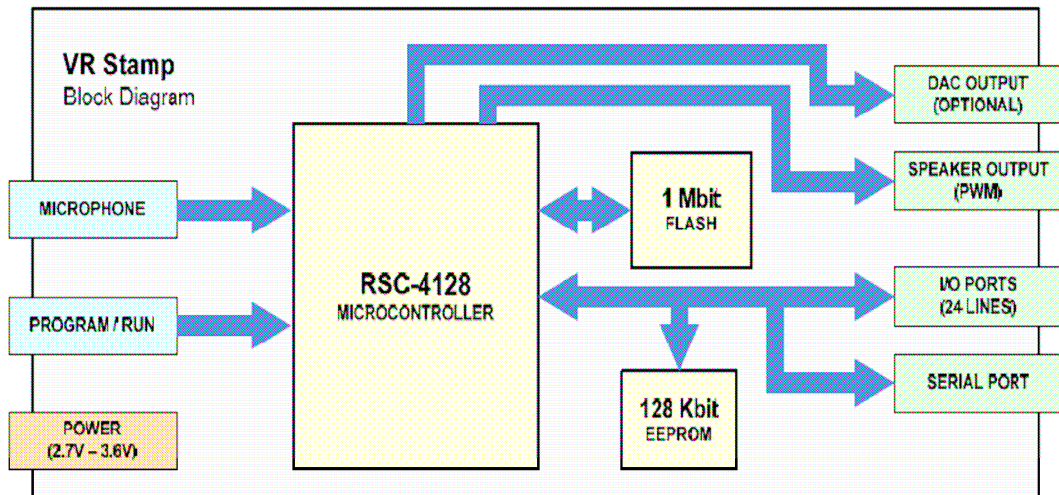
- ▶ Noise-robust Speaker Independent (SI) and Speaker Dependent (SD) recognition
- ▶ Many language models now available for international use
- ▶ High quality, 2.4-10.8 kbps speech compression & sound effects with Sensory's "SX" speech output technology
- ▶ Speaker Verification (SVWS) - Noise robust 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

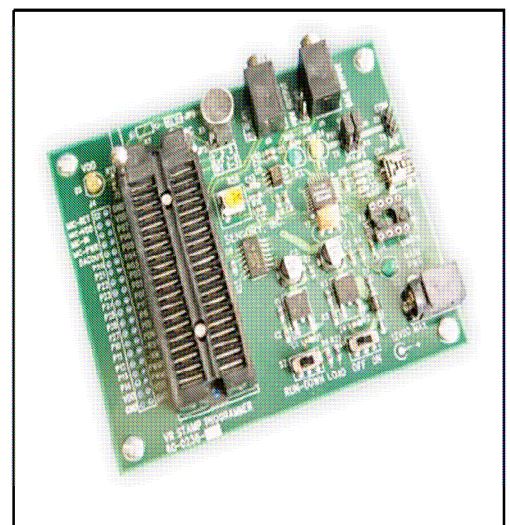
- ▶ $V_{DD} = 2.70V - 3.6V$
- ▶ $I_{ACT} = 26mA @ 3V$
- ▶ $I_{SLEEP} = <20\mu A @ 3V$



VR STAMP DEVELOPMENT PLATFORM

The **VR Stamp Toolkit** contains everything necessary to program the VR Stamp to your specifications. Application programs are downloaded onto the VR Stamp module using a VR Stamp Programmer Board that has been connected to a PC's USB port. The VR Stamp can then be removed and plugged directly into the final product using an industry standard DIP socket.

The VR Stamp Toolkit includes samples and demos of key Sensory technologies that make developing with speech easier than ever. Tools like **Quick Synthesis™ 4** allow recordings of speech to be compressed quickly with the right combination of size and quality. Phyton's C Compiler expedites development by providing a powerful development and debugging environment.



All of the world-class technologies in the FluentChip library are available for use on the VR Stamp, with the exception of Record & Play due to memory constraints.

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
- › (2) VR Stamps, Serial EEPROM version
- › VR Stamp Programmer Board
- › 120v Power Supply, Speaker, USB cable
- › Phyton C Compiler CD and Dongle

*for creation of speaker independent vocabularies
cutting edge speech technologies and tools
demos and drivers
for prototyping and/or production
for downloading application code and demos
everything needed to get started
powerful coding and debugging platform*