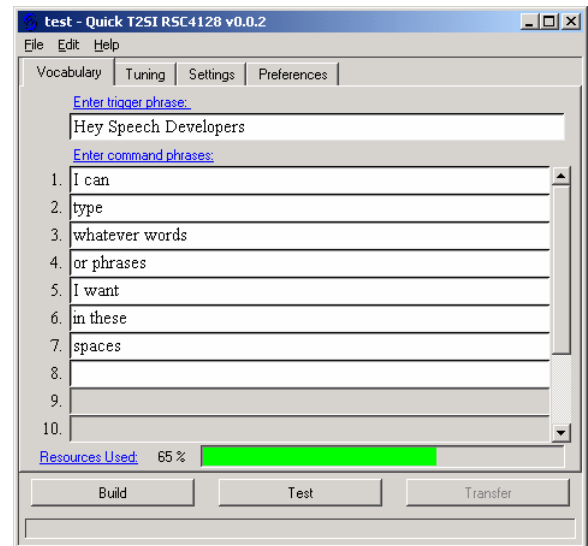


The **Quick T2SI™** (Patent Pending) **Toolkit** brings unprecedented flexibility and speed in developing speaker independent (SI) speech recognition sets for Sensory's RSC-4x microcontroller. This is the first and only PC based Text-to-Speaker-Independent (T2SI) development tool available for an embedded platform. What previously has been an expensive process requiring months of effort and hundreds of custom recordings is now a push-button process that can be done by developers in just minutes.

T2SI™ (Patent Pending) incorporates the latest advances in neural networks combined with Hidden Markov Modeling to create a powerful phonemic recognizer, using text entry to create, edit, build, and download embedded vocabularies in just minutes.

The **Quick T2SI™ Toolkit** includes PC based software to build SI sets, and an RSC-4x Demo/Evaluation Board for final real-world testing on an embedded platform.

Speaker independent sets can achieve the highest accuracy through several key approaches: 1) Word substitution and experimentation in the Quick T2SI Toolkit, 2) Word pronunciation and phonetic editing capabilities in the toolkit, and 3) Custom neural nets can quickly be created by Sensory to decrease error rates by up to 50%.



KEY FEATURES

FAST EDITING & DEVELOPMENT OF VOCABULARY SETS

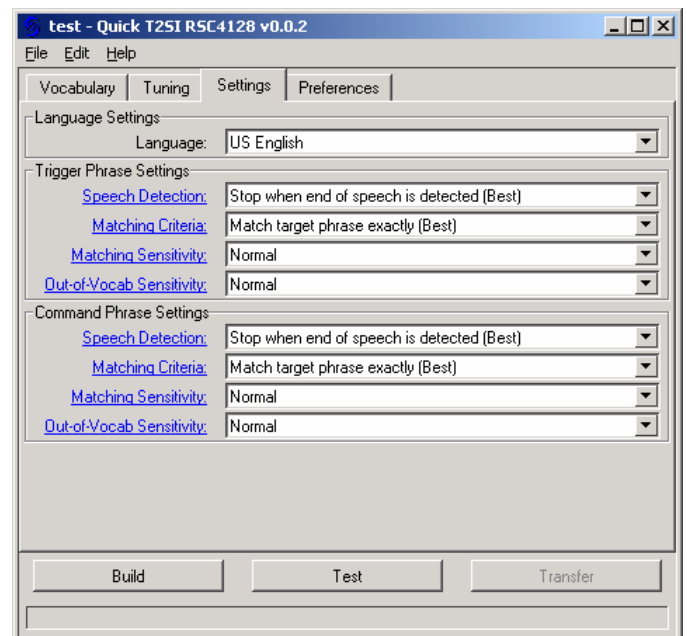
- ▶ Push-button development
- ▶ Automatic generation of pronunciations
- ▶ Pronunciation testing and tuning capability
- ▶ World-bet and International Phonetic Alphabet editing
- ▶ Speech synthesis pronunciation modeling & feedback
- ▶ Phonetic keyboard with pronunciation examples
- ▶ Boolean selectable alternate pronunciations

ACCURATE SPEAKER INDEPENDENT RECOGNITION SETS

- ▶ High noise immunity
- ▶ No accuracy surprises in final products
- ▶ Selectable out-of-vocabulary rejection
- ▶ PC & embedded testing capabilities
- ▶ Fast downloads to embedded test platform
- ▶ Speech synthesis feedback aids accuracy tuning

OTHER FEATURES & CAPABILITIES

- ▶ Fast time to market
- ▶ Unlimited sets with tens of words per set
- ▶ Built in word spotting for more natural phrasing
- ▶ Trigger word modeling for hands free applications
- ▶ Controllable listening windows for accuracy tuning
- ▶ Multi-lingual support

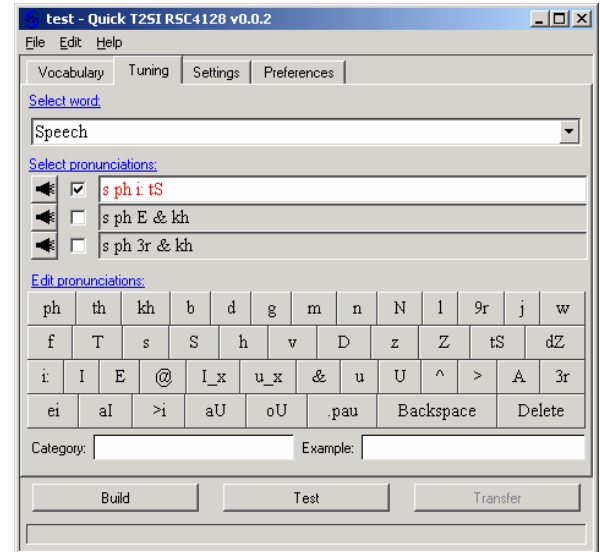


T2SI™ EDITING AND VOCABULARY CREATION

After typing in the T2SI™ vocabulary, the Tuning menu can be called upon for editing and testing of vocabulary selections. Features include:

- ▶ Automatically generated pronunciation choices with user selectable and editable features
- ▶ Sound keyboard demonstrating all possible sound choices with example words and pronunciation
- ▶ Speech synthesis playback of vocabularies to accurately hear pronunciation for which the recognizer will be searching
- ▶ Test mode to insure best choices amongst pronunciation models

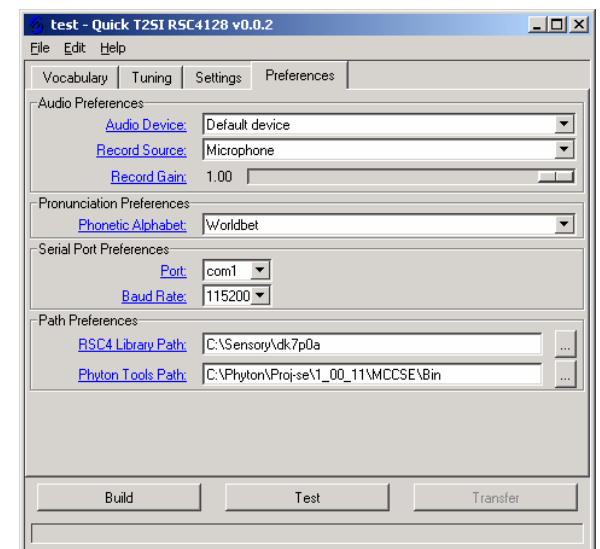
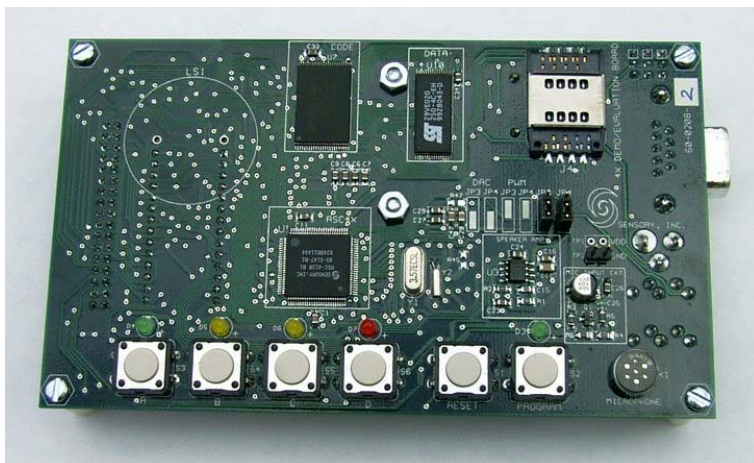
When tuning is completed the vocabulary can be built, tested on the PC, and downloaded onto the **RSC-4x Demo/Evaluation Board** for final real world testing.



RSC-4X CODING, PROTOTYPING & EVALUATION

T2SI™ vocabularies can be quickly downloaded to the **RSC-4x Demo/Evaluation Board** for prototyping and evaluation. This board is a completely self-contained speech recognition system containing the RSC-4x processor, microphone, preamplification, and various memories (RAM, ROM, and flash). Interfaces are included for serial and parallel communications, memory sticks, plus audio outputs and external mic inputs. The board runs on AC or DC, and includes a variety of buttons and LEDs for manual controls and visual feedback.

RSC-4x Demo/Evaluation Board



The Quick T2SI™ Tool includes all the links and preferences needed to interface to FluentChip™ Technology code libraries as well as the Phyton Project SE, which includes an assembler, linker, debugger and optional C compiler. www.phyton.com

575 N. Pastoria Avenue • Sunnyvale, CA 94085
Tel 408.625-3300 • Fax 408.625-3350
www.sensoryinc.com • sales@sensoryinc.com

