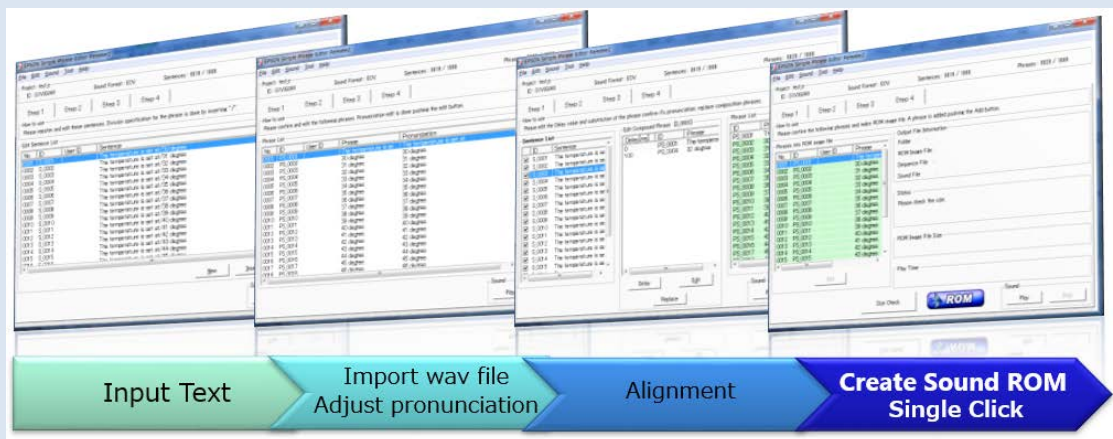# Epson IC with Voice/Audio Play Function Supports 12 Languages

Epson to provide voice/audio data PC tool for Epson ICs in an expanded range of languages

Seiko Epson Corporation (TSE: 6724,"Epson") has begun shipping a PC tool for creating high-quality voice data in an expanded range of languages for an Epson audio playback microcontroller and IC.

Input Text → Import wav file / Adjust pronunciation → Alignment → **Create Sound ROM Single Click**

S1C31D50& S1V3G340's key product features
Supports 12 languages（American English, American Spanish, Canadian French, British English, German, French, Spanish, Italian, Russian, Japanese, Chinese, Korean）

 The microcontroller and IC support four languages (American English, Chinese, Japanese and Korean), but the new tool provides support for an additional eight languages (American Spanish, British English, Canadian French, French, German, Italian, Russian and Spanish).

The tool generates high-quality voice data from text. *1

・With an extensive dictionary and the ability to analyze text and generate pronunciation, the tool enables users to create high-quality voice data.

・A pronunciation editing function is provided for coined words, product names, and other words that are not in the dictionary.

・There is one speaker (a female voice) for each language, but the voice pitch and speed are adjustable. *2

Existing voice data and melody data can be used.

・Existing WAV files (16 kHz sampling rate, monaural format) can easily be imported into the tool.

・Imported WAV files can also be connected to the tool's voice.

Basic phrase settings can be arranged automatically.

・To save memory capacity, insert a common slash (/) in basic phrases. The tool recognizes these phrases and automatically sets up everything, including connection information.

Example)

Number 1: "The temperature/is 38 degrees."

Number 2: "The temperature/is 39 degrees."

Number 3: "The temperature/is 40 degrees."

Generated voice data: "The temperature" "is 38 degrees," "is 39 degrees," "is 40 degrees."

Specifications compatible with the microcontroller and IC enable output of voice playback control information.

・S1C31D50: Control information is added to output sound ROM data, enabling voice playback simply by specifying the number in the tool in the microcontroller.

・S1V3G340: The tool output playback commands include connection information, enabling simple control from the microcontroller and voice playback.

Speech creation list output

・A speech generation list in the tool can be output to an Excel file (CSV format).

・Text in an Excel file can be copied and pasted into the tool.

　*1 There is no translation function. The text for a supported language is entered in that language.

　*2 The speaker (voice) is different for each language.

Product specifications

Compatible ICs	S1C31D50 and S1V3G340
Compatible OS	Compatible OS
Supported languages	Americas American English, American Spanish, Canadian French
	Europe British English, French, German, Italian, Russian, Spanish
	Asia Chinese, Japanese, Korean
Importing of voice and melody data during use	WAV files can be imported into the tool (16 kHz sampling rate, monoaural format)
Speaker	Female (one speaker) Voice pitch (high/low) and speed are adjustable

Summary

By providing the new tool, Epson enables developers of items such as household equipment, home electronics, health and fitness equipment, and industrial equipment to easily make their products multilingual by embedding an IC.

Epson bundles the tool with evaluation boards and provides it for free to customers of the S1C31D50 microcontroller and S1V3G340 IC.

S1C31D50 product information

・S1C31D50 data sheet

・S1V3G340 information

・Demonstration video

・Contact Windows