

Voice Guidance LSI

■ Overview

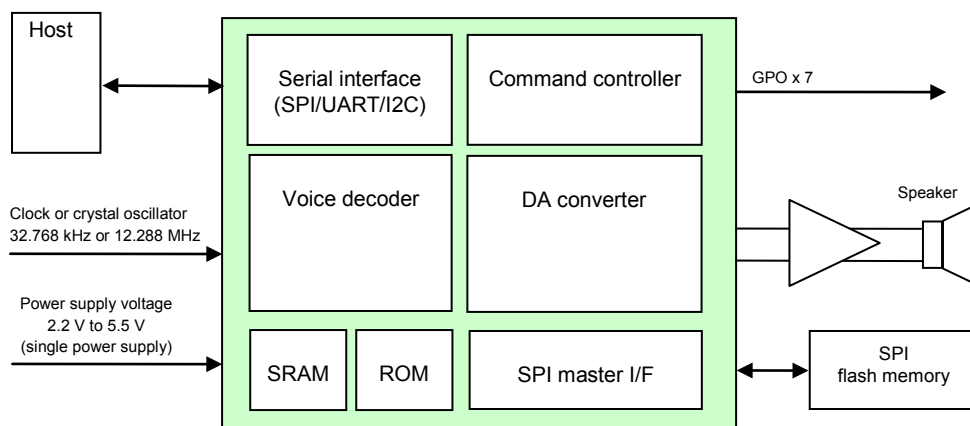
The S1V3G340 is an LSI incorporating high-compression, high-quality audio decoding functions, external SPI flash memory interface, and a DA converter, making it ideal for use in voice guidance products. The voice data creation tool for EPSON voice guidance LSI allows easy creation of high-quality voice data without the need for studio recording. Use of external SPI flash memory allows easy interchanging of voice data. Additional voice data can be transferred from a host when required. General-purpose output ports are provided to allow flexible system design. All functions are controlled by commands via a serial interface for easy addition to any existing system incorporating a host.

■ Features

- **Audio playback**
 - High-compression, high-quality audio decoder (proprietary Epson data format)
 - Bitrate: 40 kbps, 32 kbps, 24 kbps, 16 kbps
 - Sampling rate: 16 kHz
- **Sequencer function (phrase interval setting)**
 - Sequence setting for up to 64 phrases (unlimited combinations)
 - Variable phrase interval delay setting: 0 ms or 20 ms to 2,047 ms (in 1 ms steps)
- **External SPI flash memory interface**
 - Clock synchronized serial interface (SPI)
 - Maximum approx. 128 mins (16 Mbytes)
- **GPO**
 - 7 pins
- **Host interface**
 - Clock synchronized serial interface, supporting UART and I2C
 - Command control
- **High-quality 16-bit DA converter**
 - Sampling rate (f_s): 16 kHz
 - Input bits: 16 bits
- **Clock**
 - Clock input: 32.768 kHz or 12.288 MHz
 - Crystal oscillator: 32.768 kHz
- **Package**
 - QFP-52 pin (10 mm × 10 mm) 0.65 mm pin pitch
- **Power supply voltage**
 - 2.2 V to 5.5 V (single power supply)

■ Standard application system

The S1V3G340 standard application system is configured as shown in the diagram below. The S1V3G340 is command-controlled by the host using a messaging protocol via the serial interface. Controlled by commands sent from the host via the serial interface after power-on resetting, the S1V3G340 outputs voice audio while internally decoding and processing internal or streamed (via host command transfer) compressed audio data.

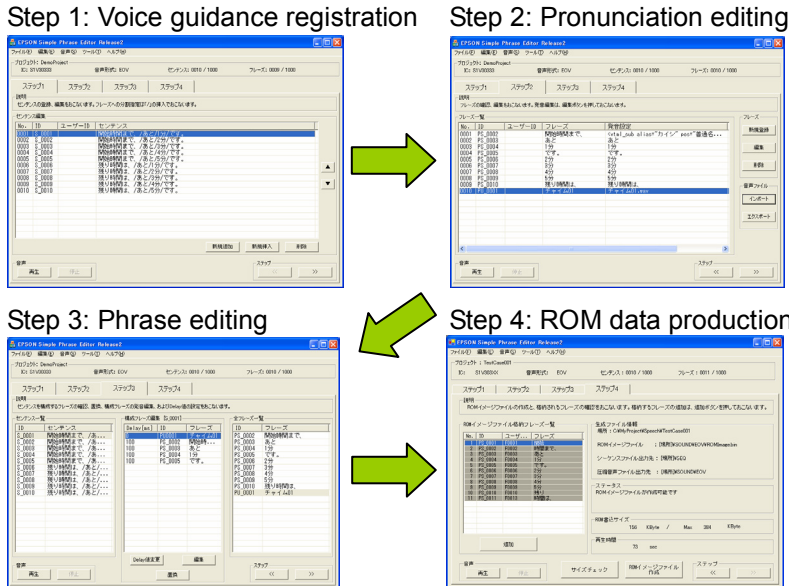


S1V3G340

Development Tools

- Evaluation board*1
- Audio data creation tool
- Sample programs

[Voice data creation tool overview]



- Supported languages : English, Japanese, Korean (all female voices)

*1 For evaluation of S1V3G340 use S1V3S344 Evaluation Board incorporating 512-KB flash memory.

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