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S1V3G340



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

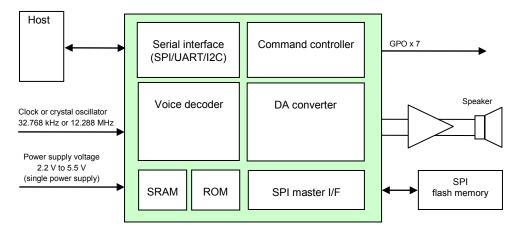
- High-compression, high-quality audio decoder (proprietary Epson data format)
- Bitrate: 40 kbps, 32 kbps, 24 kbps, 16 kbps
- Sampling rate: 16 kHz
- Sequencer function (phrase interval setting)
 Sequence setting for up to 64 phrases
 - (unlimited combinations)
 - Variable phrase interval delay setting: 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)
 - Maximum approx. 128 mir
- 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.

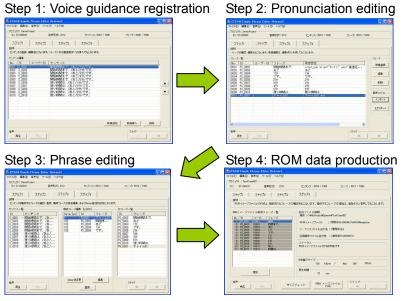


S1V3G340

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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