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Music Decoder with USB and SD-card

MP3/WMA/AAC Music decoder with USB and SD-card Memory interfaces

ROHM has completed the development of the new stand-alone music decoder BU9438KV, featuring the playback of MP3 files as well as WMA and AAC files. As a new device it enriches the portfolio consisting of BU9428KV (USB entry version), BU9435KV (SD memory access added) and BU9437AKV (WMA decoder added), whilst keeping the pin to pin and software command level compatibility inside this series of ICs. The FF/FW playback features has also been integrated to the new BU9438KV, allowing to move forward or backwards inside a song.

A feature which is appreciated in many applications, ranging from portable music players, car accessories, car radios, home stereo to various other consumer devices.

All mentioned decoders have an integrated system controller, equipped with command software that can perform file searching, reading, decoding, and can switch between standalone and slave operation, minimizing development time. Slave mode allows software control by the microcontroller for complex processes such as filename and ID3 tag display, while standalone mode provides music playback functionality to non-audio applications - even those without a CPU. The BU9438KV enables automatic playback of MP3, WMA and AAC files stored on USB or SD memory, making it ideal for all types of audio devices, such as CD players, compact stereo systems, car audio, and clock radios

Samples are available on request, the mass production of BU9438KV is ramping up during Q4´2008.

Features Summary:

- USB and SD memory audio play function are built in All in 1chip
- USB2.0 Full-speed host controller contained
- SD memory card controller contained (SD/SDHC/mini SD/micro SD/MMC)
- FAT16/32 file-system support
- System controller contained (Standalone and I2C slave mode support)
- MP3 Decoder contained (MPEG 1, 2, 2.5 Audio Layer 1, 2, 3)
- WMA Decoder contained (WMA9 Standard)
- AAC Decoder contained (MPEG4 AAC LC profile extension: .m4a)
- FF/FR play support(play speed variable)
- Time resume function support
- Sample Rate Converter (8k~48kHz)
- Sound Effecter (POP/JAZZ/ROCK/CLASSIC etc.)
- DAC (THD:0.02% S/N:96dB D-range:88dB)
- Digital Audio Output I/F (I2S Out/SPDIF Out)
- Integrated PLL (12MHz oscillation for USB)
- Integrated LDO (CORE power supply 1.5V)

- VQFP64 package

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