

Reference for ML2874, Oki's 32 Polyphonic Sound Generator Chip for the BRIC Markets

[Sales plan]

- Product name: ML2874
- Sample price: 500 yen
- Sample shipment: Available
- Volume shipment: April 2006
- Evaluation board: Available

[Features of ML2874]

- Implements PCM sound generator technology for natural reproduction of sounds from musical instruments such as pianos and drums
- Maximum sounds: 40 sounds MIDI 32 polyphonic+8Ch PCM simultaneous replay
- Includes a speaker amplifier that can output 650mW when driven at 3.6V, and using an 8Ω speaker
- Complies with GM sound set (for GM System Level 1)
- Equipped with a total of 221 tones including 128 timbres and 47 percussion sounds as specified by GM, and 46 timbres of ethnic instruments from the BRICs market
- Reproduces sound effects and speech using 2-bit/4-bit OkiADPCM synthesizers and the embedded PCM
- Supports SMF, Faith Inc.'s original music format
- Embedded LED driver with brightness control
- Supports 1.8V low-voltage CPU interface

[ML2874 specifications]

- Operating frequency: 2.7MHz to 34MHz
- Operating voltage: 2.7V to 3.6V
- Sequencer: Built-in
- FIFO memory: Equipped with music playback, real-time playback and ADPCM playback
- Package: 32pin QFN (5mm x 6mm), 36pin W-CSP (4.2mm X 3.6mm)

[Tools to create content]

Oki Electric made major improvements in its PC tool to create MCDF (Multi Media Communication Data) for multimedia content format. This tool enables users to create content that are synchronized with PCM and ADPCM sound effects, LED emission, screen display, and text display, with MIDI music. This tool can be downloaded, free of charge, from the following URL:

<https://www.oki.com/jp/sisc/swingnringerpc/>