MP3 Player  MP3001-256

Features

- MPEG1 / 2 / 2.5 Audio Layer 1, 2, 3 decoder, bit-rate: 8–48Kbps; 8–48kHz, CBR/VBR
- Support WMA Decoder, bit-rate: 32–384Kbps; 8–48kHz
- Digital Voice Recording at ultra low 4.4 or 8Kbps with Actions Speech Algorithm
- 24 bits DSP Core and 8-bit MCU with on-chip Debug Support Unit (DSU)
- Support up to 3(pcs)* 1M / 8M / 16M / 32M / 64M / 128M / 256M / 512M / 1G / 2G / 4G bytes NAND type Flash
- Support 24.576MHz OSC with on-chip PLL for DSP and Built-in 32kHz RC oscillator
- 2-channel DMA, 1-channel CTC (Counter / Timer Controller) and Interrupt controller for MCU
- Remote control and battery level detection
- Energy saving dynamic power management (PMU), supporting 1*AA(A), 2*AA(A), and Li-ion battery
- Built-in USB 2.0 (FS) Compliance PHY+SE, almost 1M bytes downloading speed
- Build in Stereo 16-bit Sigma-Delta DAC and its modulator digital out
- Build in Key Scan Circuit(3*3) and GPIO(max 9 duplex)
- I2C/SPI Interface
- Support external LCD (STN & Color STN)
- FM tuner input and control support
- Support Stereo 16-bit Sigma-Delta ADC for Microphone / FM input, sample rate at 8 / 12 / 16 / 24 / 32 / 48kHz
- MCU run at 24.576MHz(typ.) and can be programmed up to 60MHz
- DSP Speed up to 72MIPS
- THD+N: 80dB (typ.)
- SNR: 86dB (typ.)
- Output: 2×11Mw @10ohm
- Standby Current: VCC:15uA VOD: <110uA
- Low Power Consumption: 7mW (typ.) -- MP3 decoder solution; 50mW (typ.) -- WMA decoder solution
- Package: LOFP64 (10*10 mm)

Solution Key Features

- MP3 + WMA&WMV/ASF + WAV + UFD + FM + DVR
- Full function USB Flash Disk (ECC, Boot, Security)
- Hi-Fi Digital Audio Playback
- Long-Time Digital Voice Recorder
- FM with Visual scan and preset
- Visual GUI, Support Multi-language
- Long Battery Life
- Minimum Size