

DREAM 5000-SDK Sound Development Kit

The 5000 Series ICs Sound Development Kit “5000-SDK” consists of sound module hardware and DREAM Instrument Editor and Bank Compiler software.

Sound module Hardware: “5000-SDK box”

The high quality sound board is based on SAM5916. Sounds are stored in 256MByte on-board DDR-SDRAM, or in **2GByte on-board NAND Flash**. Sounds are downloaded via USB High-Speed port. The board hardware includes 1 Audio DAC AKM AK4396 (120dB DR, -100dB THD+N).

The “5000-SDK box” is USB bus powered, 2 LEDs indicating Power and USB Activity.



DREAM Instrument Editor

The DREAM Instrument Editor is the tool for turning samples into instruments, which will be compiled to produce a sound bank. It uses Dream XDI instrument format (with import of legacy 94i and 98i files), and supports all current Dream target IC and adapts to their specific features.

Main features

- Graphical sample mapping display and editing: instruments consist of “layers” (rows) filled with “splits” (elementary components associated with a sample file, or with an FM structure on certain targets) that can be dragged, resized, cut/copied/pasted...
- Each split offers 1 oscillator (+gain), 1 multi-mode filter, 1 amplifier, 3 envelopes, 2 LFOs and 4 keyboard tables
- Graphical envelope and keyboard table editing
- User-friendly parameter control: sensible slider layout and colour code for easy spotting of parameter interactions. Volume in dB, LFO frequency in Hz, pitch modulation amount in semitones...
- Automatic split selection through MIDI keyboard
- Drumset editing capabilities: instrument collection import from XDL (bank definition) file, editing and re-export
- Integrated Dream board FX control panel
- Multi-level undo/redo

