

# DREAM 3000-SDK Sound Development Kit

The 3000 Series ICs Sound Development Kit “**3000-SDK**” consists of sound module hardware and DREAM Instrument Editor and Bank Compiler software.



## Sound module Hardware: “3000-SDK box”

The high quality sound board is based on SAM3816. Sounds are stored in 256Mbyte on-board DDR-SDRAM. Sounds are downloaded via USB High-Speed port. The board hardware includes 2 Audio DAC AKM AK4396 (120dB DR, -100dB THD+N).

The “3000-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

