

5716-C-PDK Product Development Kit

5716-C-PDK is a Product Development Kit for Audio applications based on the SAM5716 IC. It consists of the development board 5716-DK, and the development software "SamVS-C" with all DREAM system/effects library object files. It also includes some firmware examples (e.g. "5716-FW" MIDI Synthesizer with effects etc), which demonstrates the possibilities of this platform.

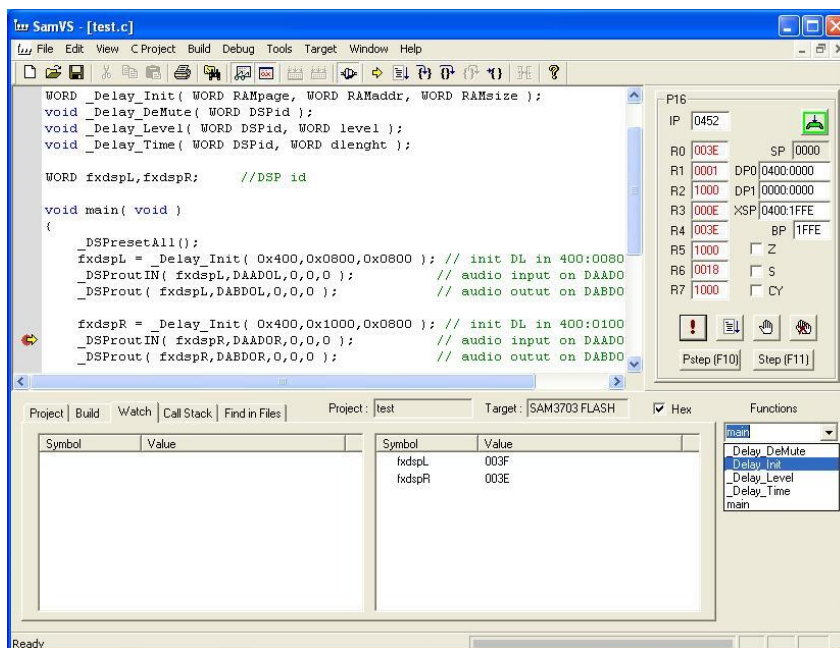
5716-DK Development Board

These are the features of the new 5716-DK development board:

- 2 channels Audio IN / 4 channels Audio OUT (Jumpers can be used for test of other audio channels)
- S/PDIF IN / OUT
- MIDI IN / OUT, USB connector, parallel 8bit Host I/F (can be used also for other peripherals)
- external on board memory: 4Gbit NAND Flash, 64Mbit SDRAM, 4Mbit serial DataFlash®

SamVS-C Development Software

- Integrated development environment with C-Compiler
- Project oriented: multi file compilation, multiple configurations (e.g. Debug and Release versions)
- C-/Assembler source level debugging with go, step into, step out, run to cursor, run to breakpoint etc.
- Library based: DREAM provides ready to use libraries like MIDI and Effects
- A system library allows complete access to all low level IC portion, like I/O ports etc.



These are some of the features of DREAM Library coming with SamVS-C V4.5 and up:

- **GM2-Synth** library module (GM level 2 compliant sound module with effects)
- **HQ Effect** modules, like stereo Pitch Shifter, Pitch Detector, Vocal Shifter etc.
- **MP3** library, supporting Multi-channel MP3 playback possibility
- **MIDI Sequencer** supporting playback and recording of up to 16 tracks, Demo player
- **File IO** library, supporting FAT16/FAT32 file system
- **USB** library, supporting SAM5xxx USB device (AudioClass 1.0 and 2.0)
- And many more