

Description

SL1001 is the World's first Universal TV Demodulator IC compliant with all of the world's terrestrial and cable Digital and Analog TV standards.

Features

- Supports demodulation of all TV standards of the world

Digital Terrestrial	ATSC, DVB-T, DTMB, ISDB-T
Digital Cable	J.83 A, B and C
Analog TV	NTSC, PAL, SECAM

- Based on "Software Defined Radio" (SDR) architecture
- Different standards supported by software change
- Performance meets test specifications for each standard (A74, Nordig2.0, CESI)
- Flexible tuner support – interfaces to LIF and IF tuners i.e. both silicon & can tuners
- Integrated ADCs, PLL's and DAC's
- Separate RF and IF AGC outputs with adaptive tuner-gain and loop-delay parameters
- Fast channel re-lock through restoration of channel parameters
- Forward Error Correction (FEC) support for all standards: Viterbi, Reed-Solomon and LDPC
- Deinterleaving support for all standards
- Interface to external SDR-SDRAM for Time-Domain Deinterleaving for ISDB-T and DTMB standards
- Excellent multi-path performance with adjustable taps
- Handles large carrier offsets

- Fast channel acquisition and recovery algorithms with blind, decision-directed and trained algorithms
- Dynamically programmable matched filters compensate for carrier frequency offsets
- NTSC/PAL co-channel rejection filters
- Works with single SAW filter for 6/7/8 MHz DVB-T operations
- Digital adjacent channel rejection filters
- FEC statistics measurements and signal meters
- Control processor to reduce host software burden

Interfaces

- Flexible interface to IF/LIF tuners
- AGC outputs for RF and IF stages
- Serial or parallel Transport Stream output interface
- CVBS and SIF analog outputs for analog A/V decoder
- I2C interface for programming and code download
- JTAG interface for Software Debug
- Power supply : 3.3V, 2.5 and 1.2V operation
- Low power consumption in standby and active modes
- LFBGA 144 –pin (9x9mm) package

Applications

- HDTV receivers and tuner modules
- PC-TV tuners
- Portable Media Players and Set-top-boxes

For further information: <http://www.saankhyalabs.com>

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