

Description

The Saankhya Labs USB TV Stick reference design is multi-standard digital HD TV receiver ideal for Tablets, personal computers and mobile devices.

Applications

- USB PCTV Stick accessory
- TV module for integration into tablets

Interfaces

- 75Ohm TV antenna connector
- USB output for external TV stick application
- Customer specified internal interface for integration with tablet devices

Features

- One standard module for worldwide standards support
- Support for analog & digital TV
- High performance TV receiver
- Low power suitable for mobile devices
- Software configurable by user for region selection

Standards

| | |
|---------------------|----------------------------------|
| Geographic Support | Europe, US, Korea, Japan, Brazil |
| Digital Terrestrial | ATSC, DVB-T, ISDB-T |
| Digital Cable | ClearQAM, DVB-C, ISDB-C |
| Analog TV | NTSC, PAL, SECAM |

Detail Specifications

- Receive frequencies: 48.25 – 863.25MHz
- Proprietary “Software Defined Radio” (SDR) architecture
- Compliant with A74, Nordig 2.2, CCSI standards
- Meets Tier 1 TV OEM performance requirements
- Flexible tuner support – interfaces to LIF (silicon tuners)
- Fast channel re-lock through restoration of channel parameters
- Forward Error Correction (FEC) support for all standards: Viterbi, Reed-Solomon and LDPC
- Integrated de-interleaving support for ISDB-T and DTMB standards

- Excellent multi-path performance with adjustable tap
- Capable of handling large carrier offsets
- Fast channel acquisition and recovery algorithms with blind, decision-directed and trained algorithm
- 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

Internal Tablet Module with Custom Interface



USB TV Dongle

