



SMS1150

Integrated Single-Chip Mobile Digital TV Receiver Notebook and UMPC Applications

The SMS1150 is a member of Siano's cutting edge second generation SMS11XX product family of Mobile Digital TV (MDTV) receivers. It introduces ISDB-T 1-Seg & 3-Seg, USB 2.0HS interface and exceptional performance – all of that on top of its predecessor multi-standard receiver, the SMS1010.

Siano's SMS1150 is a highly integrated all-CMOS single chip receiver designed to enable low-cost, rapid implementation of multi-standard, multi-band MDTV applications. With minimal hardware design effort it enables MDTV reception in a variety of computer related electronic devices, such as notebook personal computers, Ultra Mobile PCs (UMPCs), Mobile Internet Devices (MIDs), and more.

The SMS1150 integrated tuner and demodulator is complemented by a Host-API software package that includes drivers and land libraries for popular host processors and operating systems.

The input to the SMS1150 is the broadcasted RF signal received by the antenna. The output is a demodulated, selected one (or multiple) channel stream in the format of either MPEG transport packets or IP datagrams (depending on the standard). This data is fed into an application processor that is capable of video and audio decompression.

Highlights

- 2nd Generation single-chip MDTV receiver
- Best-in-class mobility performance
- Extremely high sensitivity
- Extremely low power consumption
- USB 2.0 High Speed (HS) compliant
- Multi-band:
 - 170MHz to 1700MHz
- Multi-standard:
 - ISDB-T 1-Seg & 3-Seg, DVB-T, DVB-H, T-DMB, DAB-IP, DAB, DAB V.2
- Multiple Picture-in-Picture (PiP)
- Fast DVB-H switching time (2 sec)
- Certified USB device drivers:
 - Microsoft Windows XP
 - Microsoft Windows Vista
 - Linux

Typical Applications

- Notebooks and Laptop PCs
- Ultra Mobile PCs (UMPCs)
- Mobile Internet Devices (MIDs)

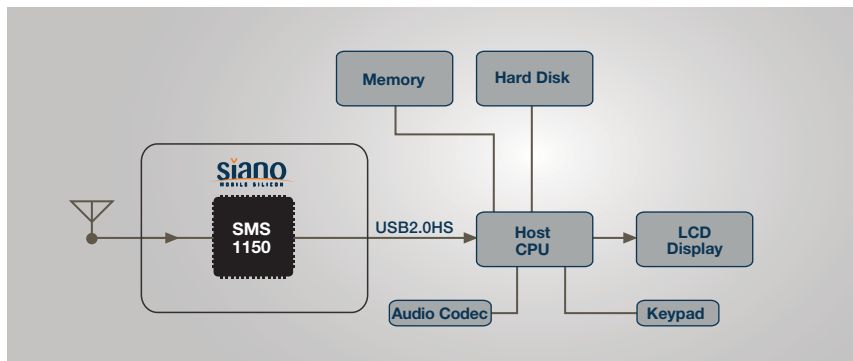


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Notebook and UMPC Applications

Key Features

- All CMOS solution (ZIF conversion)
- No external active components
- Superior mobility algorithms
- On-chip PID and IP filtering
- Support for Personal Video Recording (PVR)
- IEC62104/NORDIG, EICTA/MBRAI 2.0, ARIB B-31 compliant
- RoHS compliant
- Complete MDTV receiver solution:
 - Device drivers
 - Middleware for CPUs
- No external active components
- Thin BGA package, 6.2x6.5x0.9mm



Integration of SMS1150 into a typical system computer

Supported Standards

- ISDB-T 1-Seg & 3-Seg
- DVB-T
- DVB-H
- T-DMB
- DAB-IP
- DAB
- DAB V.2

Supported Bands

- VHF III (170-240 MHz)
- UHF (470-862 MHz)
- L1 (1450-1492 MHz)
- L2 (1660-1685 MHz)

Supported Interfaces

- USB 2.0 High Speed (HS)
- General Serial (I2C-like) Control
- Transport Stream (TS)

Specifications are subject to change without prior notice.

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