

SMS1130-T

Low-Cost, Highly Integrated Single-Chip MDTV Receiver with MRC Diversity

Mobile and Portable Applications



The SMS1130-T is the newest low-cost member of Siano's cutting edge second generation multi-standard, multi-band SMS11XX product family of Mobile Digital TV (MDTV) receivers. Supporting DVB-T, T-DMB, DAB and ISDB-T 1-Seg & 3-Seg MDTV standards, antenna diversity and exceptional performance.

Siano's SMS1130-T is a highly integrated, extremely low-cost all-CMOS single chip receiver designed to enable rapid implementation of multi-standard, multi-band MDTV applications. With minimal hardware design effort it enables MDTV reception in a variety of handheld mobile and portable devices, such as mobile phones, communicators, PDAs, portable video and media players and more.

The SMS1130-T integrated tuner and demodulator is complemented by a Host-API software package that includes drivers and libraries for popular host processors and operating systems.

To employ the full strength of the SMS1130-T, two devices could be coupled together to form a diversity enabled system, thus improving mobility and sensitivity performance even further.

The input to the SMS1130-T 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

- Extremely low-cost single-chip MDTV receiver
- Best-in-class mobility performance
- Full MRC diversity
- Extremely high sensitivity
- Low power consumption
- Allows MDTV in a wide range of handheld devices, using the most popular interfaces such as SPI, SDIO, TS and parallel
- Multi-band:
 - 170MHz to 1700MHz
- Multi-standard:
 - ISDB-T 1-Seg & 3-Seg, DVB-T, T-DMB, DAB

Typical Applications

- Mobile phones
- Portable media players
- PDAs & smart phones
- Portable navigation devices (GPS)

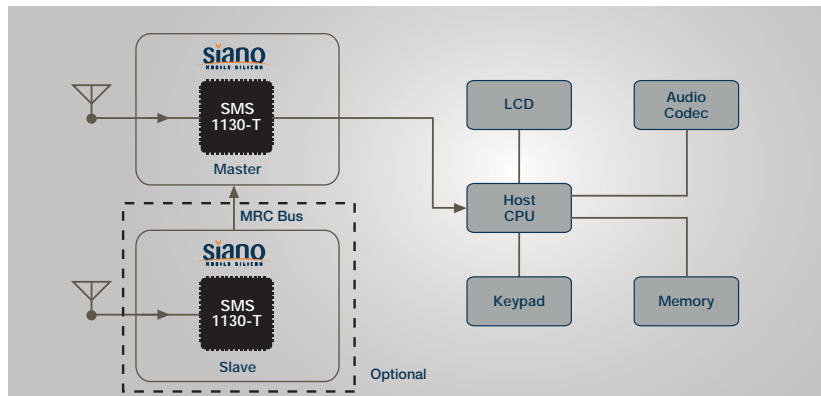


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Key Features

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



Integration of SMS1130-T into a typical automotive system with MRC diversity (optional)

Supported Standards

- ISDB-T 1-Seg & 3-Seg
- DVB-T
- T-DMB
- DAB

Supported Bands

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

Supported Interfaces

- SPI (Master/Slave)
- SDIO (Slave)
- CPU Parallel Bus (Slave)
- General Serial (I2C-like) Control
- Serial Transport Stream (TS)

Specifications are subject to change without prior notice.

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