



SMS2270

Advanced MDTV Multi-Standard Receiver

with ISDB-T Full-Seg and n-way Full MRC Diversity

Mobile, Portable PC, Set-Top Box, HDTV & Automotive Applications

The SMS2270 is a new member of Siano's single-die, multi-standard MDTV receiver chips and the first one to support ISDB-T Full-Seg (13-Seg) on top of 1-Seg and 3-Seg, providing a complete solution together with DVB-T, T-DMB, DAB and DAB+.

The SMS2270 provides a single-package, cost-optimized solution for ISDB-T Full-Seg by integrating Siano's cutting-edge third generation multi-standard technology together with an SRAM die. Siano's SMS2270 provides single-die implementation of Siano's RF and demodulator while achieving new outstanding deep in-door and mobility performances.

The SMS2270 achieves new mobility records due to enhanced, dedicated mobility engine. It provides best-in-class sensitivity, flat across the entire spectrum of the various supported bands, as well as best-in-class immunity to tough multi-path field conditions. The SMS2270 provides optional support for FM radio, mass storage and multiple (n-way) MRC diversity for varied standards.

Siano's SMS2270 enables TV reception in a variety of devices for both in-door and out-door solutions, such as set-top boxes or HDTV, mobile phones, cellular data-cards, notebooks, navigation devices, UMPCs, MIDs, PDAs, portable video and media players as well as optimal TV reception in automotive entertainment devices. The SMS2270's integrative and system oriented design approach enables integrating several MDTV standards' functionality to portable and handheld devices at a reduced system cost and fast time to market.

The SMS2270 is complimented by Siano's Host-API software package that includes drivers and libraries for popular host processors and operating systems.

The input to the SMS2270 is the broadcasted RF signal received by the antenna. The output is a demodulated, selected channel stream. This data is fed into an application processor that is capable of video and audio decompression and rendering.

Highlights

- Single-die, multi-standard MDTV receiver chip with ISDB-T Full-Seg
- No need for additional memory
- Multiple (n-way) MRC diversity, up to 4 separate antennas supported on system level
- Mass storage support
- FM stereo support
- Superior mobility and extremely high sensitivity
- Superior immunity to tough multi-path field conditions
- Popular interfaces

Typical Applications

- Set-top boxes & HDTV
- Mobile phones
- Cellular data cards
- PMPs, PNDs & portable computers
- Automotive

Target Markets

- Global



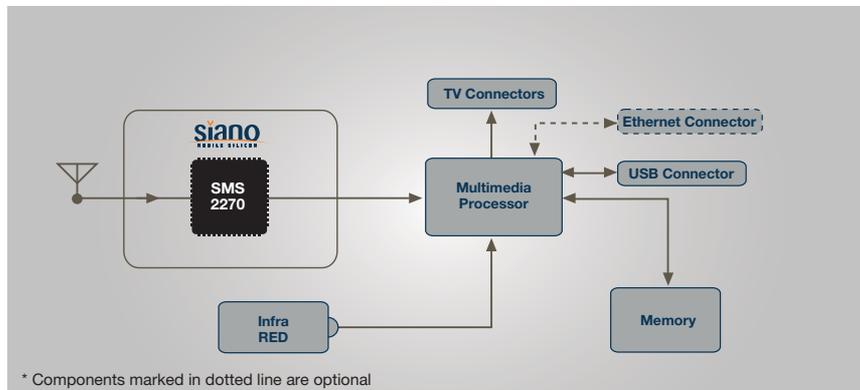
SMS2270

Advanced MDTV Multi-Standard Receiver
with ISDB-T Full-Seg and n-way Full MRC Diversity

Mobile, Portable PC, Set-Top Box, HDTV and Automotive Applications

Key Features

- No external active components
- Superior mobility algorithms
- Recording (PVR) – including dual frequency (in MRC system)
- USB compliant
- RoHS compliant
- Complete MDTV receiver solution:
 - Device drivers
 - Middleware for popular host processors
- Certified USB device drivers:
 - Microsoft Windows XP (WHQL)
 - Microsoft Windows Vista (WHQL)
 - Microsoft Windows 7 (WHQL)
 - Linux
- 9mm x 9mm x 0.9mm
116 pin BGA, 0.8mm pitch



Integration of SMS2270 into a Set Top Box

Supported Standards

- DVB-T
- T-DMB, DAB/DAB+
- ISDB-T
 - Full-Seg
 - 1-Seg & 3-Seg
 - sb & mm
- FM Radio

Supported Bands

- Low VHF/VHF (64 -240 MHz)
UHF (470-862 MHz)

Supported Interfaces

- USB 2.0 High Speed (HS)
- 2xSPI (Master/Slave)
- SDIO (Slave)
- Parallel Bus (Slave)
- Serial/parallel Transport Stream (TS)
- General Serial (I²C-like) Control

Specifications are subject to change without prior notice.

The Siano name and logo are registered trademarks of Siano Mobile Silicon Ltd. Siano enabling TV EVERYWHERE is a trademark of Siano Mobile Silicon Ltd. All other trademarks are the property of their respective holders.



enabling TV EVERYWHERE

Siano China - Beijing
Bright China Chang An Building No. 7
Tower 2, Suite 1123
Jianguomen Neidajie, Beijing 100005
People's Republic of China
Tel: +86-10-5911-1616/1818
Fax: +86-10-6517-1066

Siano China - Shenzhen
Intn'l Science & Technology Building
Room 712, 3007 Shennan Middle Road
Futian District, Shenzhen 518033
People's Republic of China
Tel: +86-755-6165-1320/1321
Fax: +86-755-6165-1310

Siano China - Shanghai
Shanghai Industrial Building
Room 11D
No. 18, Cao Xi Bei Road
Shanghai, 200030
People's Republic of China
Tel/Fax: +86-21-6427-7682

Siano Taiwan
8F., No.10, Lane 360, Sec. 1
Neihu Rd., Neihu District
Taipei City 114, Taiwan
Tel: +886-9-2204-2815
Fax: +886-2-2219-7491

Siano Korea
#528, Metrokhan
1115, Dalan-dong
Dongan-Gu, Anyang-City
Gyeonggi-do, Korea
Tel: +82-31-388-2556
Fax: +82-31-388-2557

BnS Technologies Co., Ltd.
Tel: +82-31-441-3400
Fax: +82-31-442-1700

Siano Brazil
Rua Joaquim Candido 1121
Morumbi, São Paulo
SP-05688-021
Brazil
Tel: +55-11-3739-0187

Siano North America
Tel: +1 214.295.2932

Siano EMEA
Delta Building
Kfar-Netter 40593
P.O.B. 8684
Netanya 42504, Israel
Tel: +972-9-865 6993
Fax: +972-9-865 6994

Email: siano@siano-ms.com
www.siano-ms.com