

# SMS4470

## Product Overview



### Advanced Receiver for DVB-T2, DVB-T, ISDB-T and Digital/FM Radio Superior Solution for Automotive and CE Applications

#### *Advance Information Only*

The SMS4470 is the newest addition to Siano's family of next-generation multi-standard MDTV IC receivers, the SMS44XX, targeting the challenging requirements of a global single IC covering a variety of broadcast MDTV technologies. The SMS4470 supports DVB-T2 as well as DVB-T, ISDB-T (1/3/13 and Tmm) and digital/analog radio (DRM+/DAB/DAB+/FM), including an identical electrical and mechanical footprint to the SMS4570 (ATSC and ATSC-MH combo). A mature and extremely high-performance solution, the SMS4470 is based on Siano's vast, field-proven experience with a range of MDTV standards, in particular, ISDB-T, DVB-T and DVB-T2.

Siano's SMS4470 provides best-in-class sensitivity, mobility and immunity to long echo interference. Further, it supports full antenna diversity (MRC) with up to 4 receivers used concurrently, addressing the extreme requirements of automotive applications.

Input to the SMS4470 is the broadcasted RF signal received by one or more antenna(e), and output is a demodulated, selected channel stream. This data is fed into an application processor capable of video and audio decompression and rendering.

The SMS4470 is complemented by Siano's Host-API software package that includes drivers and libraries for popular host processors and operating systems. This Host-API is based on Siano's expertise integrating MDTV into various handheld and portable devices, including mobile phones, personal media players, portable navigation devices, PCs and automotive applications.

#### HIGHLIGHTS

- Supports DVB-T2, DVB-T and ISDB-T
- Supports Digital Radio and FM: DRM+/DAB/DAB+
- Complete, fully integrated MDTV receiver solution
- On-chip provisions for Conditional Access support
- Automotive grade
  - Up to 4-way diversity
  - Background scan
- Superior mobility
- Extremely high sensitivity

#### TARGET MARKETS

- Europe
- Japan
- South America
- South Africa
- Middle East & APAC

#### TYPICAL APPLICATIONS

- Automotive applications
- Personal media players
- Portable navigation devices
- Tablets

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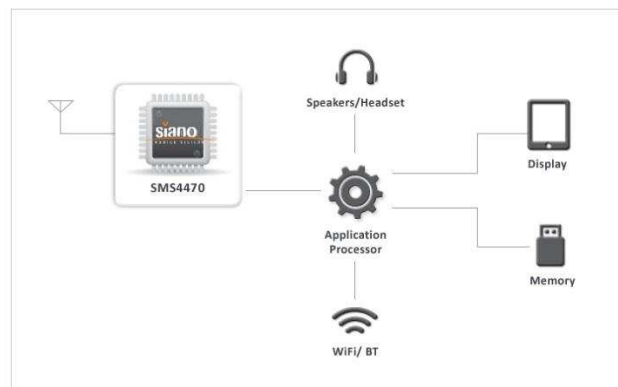
*Advance Information Only*

#### Key features:

- Compliant with DVB-T2, DVB-T and ISDB-T
- Compliant with DRM+/DAB/DAB+ and FM
- Complete MDTV receiver solution
  - Single-die tuner and demodulator
  - Device drivers
  - Middleware for popular host processors
- On-chip provisions for Conditional Access support
- Superior mobility
- Extremely high sensitivity
- Greater immunity to tough multi-path field conditions
- Full MRC support for up to 4 receivers
- RoHS compliant
- REACH compliant
- Halogen-free compliant

#### Form factor:

- 10mm x 10mm x 1.1mm BGA
- 0.8mm pitch
- 140 pins



*Integration of SMS4470 into a tablet (non-MRC)*

#### SUPPORTED STANDARDS

- ISDB-T: ARIB-STD-B31
- DVB-T: ETSI EN 300 744
- DVB-T2: ETSI EN 302 755

#### SUPPORTED BANDS

- UHF/VHF/LOW-VHF (54 MHz – 806 MHz) and L-Band (1.5 GHz)

#### SUPPORTED INTERFACES

- 3xSPI (Master/Slave)
- SDIO (Slave)
- Serial/parallel Transport Stream (TS)
- General Serial (I<sup>2</sup>C-like) Control
- UART/ISO7816

