NMI310

Product Highlight

- Pre-integrated market-proven DVB-T/H middleware
- RAM and All peripheral components including LNAs, VCO, Crystal Oscillator, and PLL Loop integrated
- Includes device drivers & market-proven DVB-T/H middleware support
- Class leading RF performance
- Small size of 8X8 BGA & 6X6 CSP package
- Low power consumption less than 27mW in time-sliced mode
- Pin-for-Pin compatible with NMI receivers for other Mobile TV standards

Main Features

Integrated Peripherals	/ Wideband LNAs / VCO / Crystal Oscillator / PLL Loop Filter
RAM	/ MPE-FEC RAM integrated
Band	/ VHF, UHF, LBand support
External Interfaces	/ SDIO, SPI, I2C,TSIF, JTAG and EBI
Others	/ On-Chip PID filtering support up to 8 simultaneous channels / Multiple service reception support / Hierarchical and non-hierarchical reception support
Implementation	/ SOC, Vcc I/O plus1.2 V core

Performance

DVB-T/H reception : MBRAI 2.0 compliant	
Excellent Linearity	/ +25 dBm IIP3
Minimal Power consumption	/ 27mW in DVB-H mode / 270mW in DVB-T mode
Extremely Low Noise	/ 3dB system NF
Ultra-low Sensitivity	/ -97.3dBm for QPSK mode rate ½ in UHF&VHF band
High Doppler performance	/ 100Hz for16QAM, 8K, R1/2

"The Final Choice for Mobile TV Front End"

DVB-T/H Single IC RF Tuner/Demodulator with Class-leading Performance

NMI310 implements DVB-T/H RF tuner and demodulator functions as specified in ETSI EN 300 744 and ETS EN 301 192 specifications. The NMI310 is a SoC that implements the RF tuner, demodulator, decoder/de-interleaver, and peripherals on a single die which achieves small package size and ultra low power consumption of 27mW in DVB-H & 270mW in DVB-T mode, excellent linearity of +2dBm IP3, and Low Noise of 3dB system NF. NMI310 provides easy system integration and rapid time to market by combining near total integration of all needed hardware elements with commercially proven DVB-T/H middleware software.

Powered by Pre-Integrated Mobile TV Middleware

The NMI310 can be used with available DVB-T/H middleware, which integrates software from protocol stack/demux and data service to a sample GUI application. By selecting NMI310, product developers do not need to consume precious engineering resources investigating, selecting and integrating third party middleware and application software.

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