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## **ANALOG DEVICES**

# RF Tuner IC for DVB-H, DVB-T, DTMB, and CMMB

**ADMTV102** 

#### FEATURES

- Single-chip synthesized tuner for dual-band mobile TV applications
- Zero-IF single-conversion architecture eliminates need for SAW filters
- Covers entire UHF Band IV/Band V (470 MHz to 862 MHz)
- Typical AGC dynamic range: -102 dBm to 0 dBm
- Low power consumption: 200 mW (UHF)
- **On-chip features include** 
  - Fast switching fractional-N PLL
  - Low phase noise and wide frequency range VCO Bandwidth-adjustable low-pass filter
- Integrated baseband VGA for direct connection to digital demodulators
- Noise/linearity optimization through internal RF AGC loop Adjustable take-over point
- I<sup>2</sup>C serial bus interface
- Small 5 mm × 5 mm, 32-lead lead frame chip scale package (LFCSP)
- **Minimal external components**

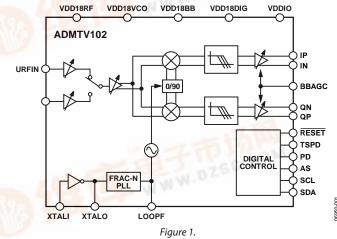
#### **APPLICATIONS**

Rev. Sp0

DVB-H/DVB-T/DTMB/CMMB mobile and portable TV receivers UHF mobile and portable TV receivers

#### **GENERAL DESCRIPTION**

The ADMTV102 is a highly integrated CMOS, single-chip, zero-IF conversion tuner IC for mobile TV standards, such as DVB-H, DVB-T, DTMB, and CMMB. The part includes an RF input band, UHF. The building blocks of the ADMTV102 include LNAs, RF PGAs, I/Q downconversion mixers, bandwidthadjustable low-pass filters, baseband VGAs, a VCO, and a fractional-N PLL. The on-chip low phase noise VCO, along with the high resolution fractional-N frequency synthesizer, makes in-band phase noise low enough for mobile TV applications. FUNCTIONAL BLOCK DIAGRAM



The ADMTV102 supports dual-band mobile TV standards with low power consumption, such as 200 mW for DVB-H. Using a small, Pb-free, 5 mm × 5 mm 32-lead LFCSP, the ADMTV102 is an ideal solution for highly integrated dual-band mobile and portable applications where low power consumption is critical. The part has an I<sup>2</sup>C\* serial bus interface. Applications for the ADMTV102 include DVB-H, DVB-T, DTMB, and CMMB.

For more information on the ADMTV102, email Analog Devices, Inc., at Mobile\_TV\_support@analog.com.

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### NOTES

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