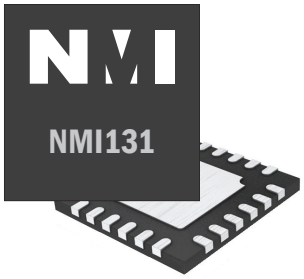
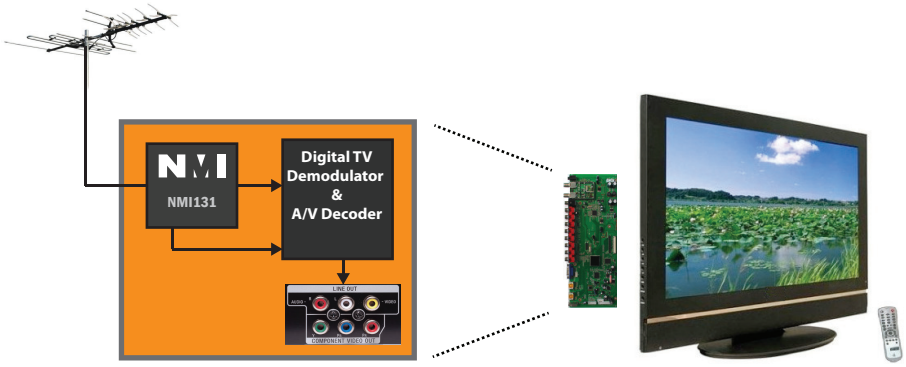
NMI131

Hybrid Digital / Analog TV Tuner





DVB-T, ATSC, ISDB-T or DTMB LCD TV

The NMI131is a hybrid Digital/Analog television RF tuner and Analog TV demodulator SOC. Leveraging NMI's proprietary RF tuner and Analog TV demodulator technology which has been deployed in over 50 million broadcast television SOCs shipped worldwide.

All NMI RF Tuner products deliver simultaneously best-in-class form factor, BOM, power consumption, and performance. The NMI131 meets the sensitivity requirements of DTT environments, the linearity requirements of fully loaded cable environments and the exacting video quality requirements of Analog Television. The NMI131 integrates the VSB and A/V seperation filtering typically perfromed by an external SAW filter.

The NMI131 supports all major digital and analog terrestrial and cable TV standards:

- Cable and Terrestrial Analog Television: PAL/NTSC/SECAM
- Digital cable transmission: DVB-C, DOCSIS, OpenCable and CENELEC
- Digital Terrestrial Television: DVB-T, ATSC, ISDBT and DTMB

For information on the NMI131 or other products from NMI please contact your local NMI sales office:

United States	+ 1 949 340 6150
China	+ 86 21 6109 6986
Korea	+ 82 31 783 4200
Japan	+ 81 3 5775 0327

- Cost-effective 4x4mm QFN package
- Ultra low current consumption: 180mA typical
- Lowest BOM: no SAW, balun, or tracking filter required
- Significant margin to NorDig, D-book, A/74, ARIB, GB20600, SCTE-40 and DOCSIS standards
- Integrated ATV demodulator and SAW filter functionality with worldwide PAL, NTSC and SECAM
  - NTSC-M, J and 4.43
  - PAL-B, B1, D, D1, G, H, I, K, K1, M, N,Nc
  - SECAM-B, D, G, K, K1
- 4.0dB NF and up to +30 dBm IIP3, integrated low noise loop through and crystal oscillator buffers for efficient multi-tuner support
- Single 1.8-3.3V IO supply with integrated power management circuitry
- Adjustable IF output frequency (3 – 60 MHz) facilitates interface with various digital demodulators
- Fully integrated VCOs, PLL loop filter, and crystal oscillator
- I2C control interface
- Environmental Compliance: NMI131 is Pb-free, Cd-free, Halogen free and RoHS compliant

For more information on NMI and broadcast television ICs from NMI please visit www.nmisemi.com

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