

MSi3101 - RF-to-USB Front-end

The MSi3101 silicon front-end, when paired with a software demodulator, enables broadcast TV, radio and GPS reception targeting processor-based platforms such as notebook computers. The MSi3101 comprises Mirics' proven multi-band FlexiRF™ tuner (MSi001), and Mirics' USB interface chip (MSi2500). The FlexiRF tuner enables low-power multi-standard broadcast reception, whilst the USB interface chip simplifies interfacing to a host processor by integrating standard USB2.0 connectivity. Optimized for Mirics' FlexiTV™ platform, the MSi3101 is also ideal for broadcast receiver applications using 3rd party software demodulation.

KEY FEATURES

Complete software receiver front-end solution

- FlexiRF tuner (MSi001) and host digital interface (MSi2500)
- Optimized for FlexiTV, ideal for custom solutions

Multi-band coverage

- LW to L-band (150kHz to 1.9GHz)
- Supports broadcast TV, radio and GPS bands

High-performance, highly integrated architecture

- Low noise, high linearity tuner
- On-chip dual analog-to-digital convertors

Small solution footprint

- Low external component count
- On-chip USB PHY and controller

Standards compliant

- USB2.0 (High Speed) connectivity

APPLICATIONS

Software demodulation-based broadcast receivers:

- Notebook, netbook and desktop PCs
- Graphics cards
- Portable consumer devices

KEY BENEFITS (paired with software demodulator)

Lowest cost broadcast receiver platform

- E.g. FlexiTV broadcast receiver BoM less than US\$5

Supports 3rd party software demodulators

- Standard USB interfacing enables support for custom software demodulation solutions

Enables OEM single-platform strategy

- Single solution for worldwide deployment

Performance margin to latest broadcast standards

- Robust 'real-world' signal reception

