

MSi001, MSi002 FlexiRF™ Tuner

The MSi001 and MSi002 integrated circuits are the world's first poly-band silicon tuners that enable global analogue and digital broadcast standards reception. Innovative design techniques deliver system flexibility, enabling high performance receiver solutions for cost and size sensitive portable Consumer Electronics applications.

KEY FEATURES

Poly-band RF tuners

Covers analog & digital broadcast standards

Multi-band coverage

LW/MW/SW	(150 kHz - 30 MHz)
VHF Band II	(64 - 108 MHz)
Band III	(162 - 240 MHz)
Band IV/V	(470 - 960 MHz)
L-Band	(1450 - 1675 MHz)

High performance architecture

Low Noise, high linearity

Adaptive FlexiRF™ architecture

Supports zero IF and low IF systems

Low external component count

Minimal external SMDs required

Small footprint package

6x6mm QFN

Industry standard control interfaces

SPI (MSi001)

I2C (MSi002)

Compliant with relevant broadcast standards

E.g. MBRAI, NorDig, ARIB

APPLICATIONS

Notebook & Desktop PCs

Cellular handsets

Portable Media Players (PMPs)

Portable Navigation Devices (PNDs)

Portable and Kitchen Radios

KEY BENEFITS

Support for global broadcast standards

DVB-T, ISDB-T, DTMB

DVB-H, CMMB, T-DMB, T-MMB

AM, FM, DRM, DAB, HD

Enables low-cost OEM platform strategy

Global solution using one tuner

Performance margin to standards

Robust 'real world' signal reception within challenging RF environments

Highly integrated design

Low BoM

Simple system integration

Low power & small footprint

Enables broadcast service reception in battery powered portable CE devices

