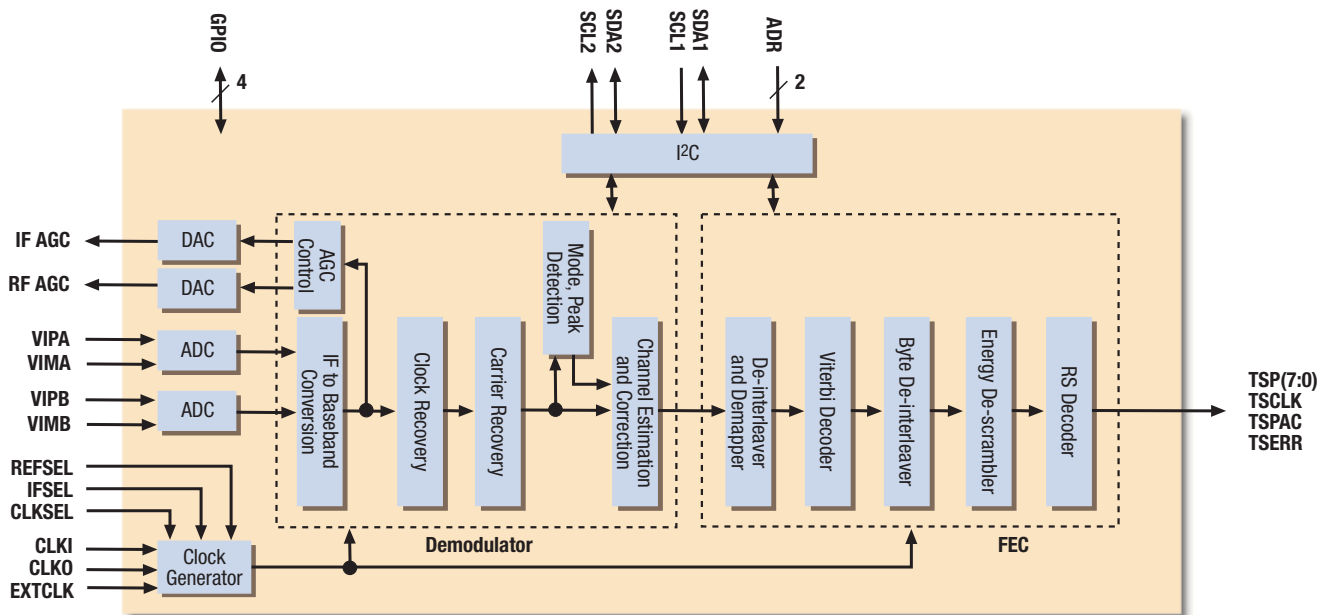


# OFDM DEMODULATOR (ISDB-T)

for terrestrial receivers of Digital TV



MB86A205 block diagram

### Description

MB86A21 is an OFDM demodulator compliant with Japan's terrestrial digital broadcasting (13 segment ISDB-T), and with 1-segment and 3-segment reception of Japan's digital terrestrial sound broadcasting (ISDB-Tsb).

A/D, 8kFFT, de-interleaver (frequency, time, Byte, bit), error correction (Viterbi, reed solomon), multi-frame process TMCC decoder with the necessary memory implemented in one chip.

### Features

- Supports:
  - All ISDB-T mode (Mode1/Mode2/ Mode3) and three-layered transmission
  - 1-segment / 3-segment reception of digital terrestrial sound broadcasting. (ISDB-Tsb)
  - Zero-IF/4MHz/44MHz/57MHz IF signal input(±3MHz band limitation from the centre frequency)
- Carrier capture ±250kHz
- Auto-detect of transmission mode/guard interval
- Excellent spurious suppression
- Incorporates:
  - TMCC decode circuit
  - De-interleave memory
- C/N monitor, MER monitor, BER monitor
- FFT window adaptation control
- High-speed channel search function
- I<sup>2</sup>C bus interface
- I<sup>2</sup>C bus for tuner control
- Standby mode
- Power supply voltage: 1.2V (internal circuit, analogue circuit), 3.3V (I/O) 3.3V (analogue circuit)
- Power consumption: typ 85mW
- Package: LQFP 64pin (Lead pitch 0.5mm)

### ASK FUJITSU MICROELECTRONICS EUROPE

Contact us on +49(0) 61 03 69 00 or visit <http://emea.fujitsu.com/microelectronics>

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