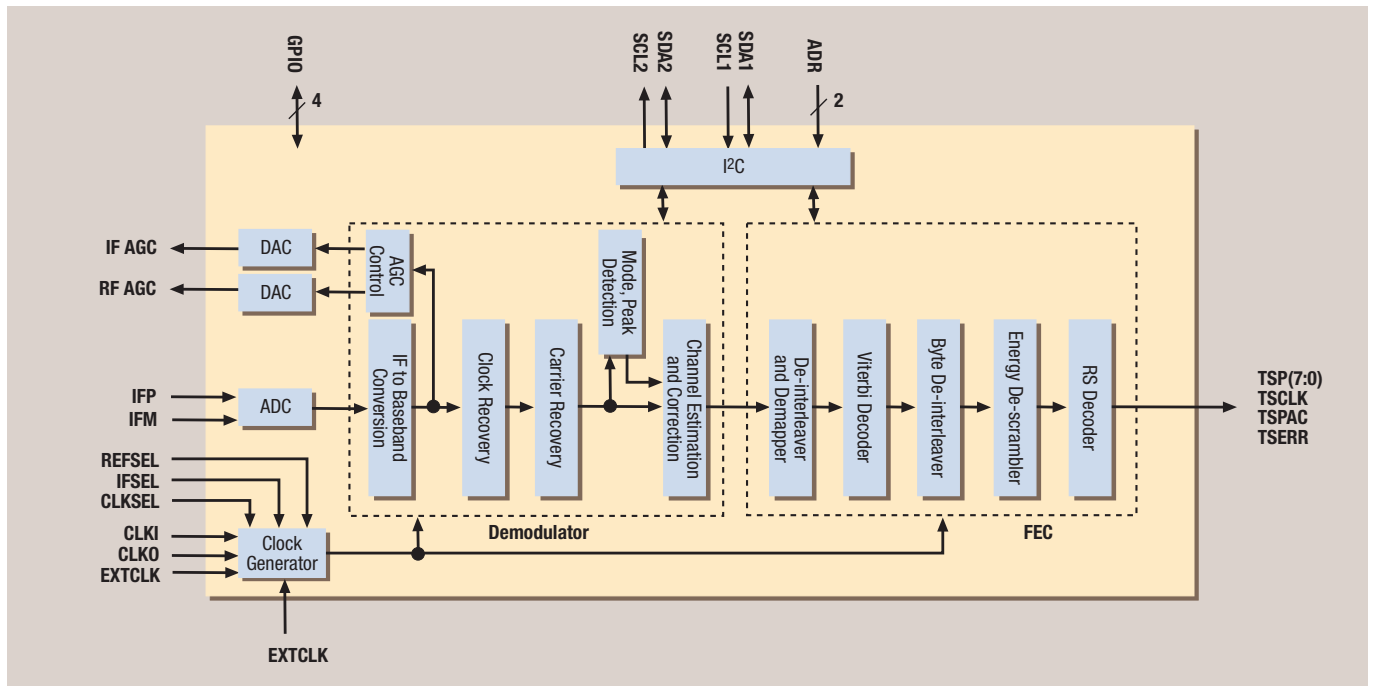


OFDM DEMODULATOR (ISDB-T)

for terrestrial receivers of Digital TV



MB86A20S block diagram.

Description

MB86A20S 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:
 - ARIB STD B14
 - Japan's terrestrial digital broadcasting (13 segment ISDB-T)
 - 1-segment / 3-segment reception of digital terrestrial sound broadcasting. (ISDB-Tsb)
 - 4MHz/44MHz/57MHz IF signal input (± 3 MHz band limitation from the centre frequency)

- Carrier capture ± 250 kHz
- Auto-detect of transmission mode/guard interval
- Incorporates:
 - TMCC decode circuit
 - De-interleave memory
 - C/N monitor, MER monitor, BER monitor
 - FFT window adaptation control
 - High-speed channel search function
 - I²C bus interface
 - I²C 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 95mW
- Package: LQFP 64pin (Lead pitch 0.65mm), WLP 58pin (Ball pitch 0.65mm)

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