**OFDM DEMODULATOR (ISDB-T)**

for terrestrial receivers of Digital TV

---

**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**

- Carrier capture ±250kHz
- 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
  - FC bus interface
  - FC 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)

All trademarks or trade names mentioned are the property of their respective owners.