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MT8864 and MT8865

Integrated Single-Chip CTTB (DTMB) and DVB-C HDTV Demodulators

MT8864 and MT8865 are highly integrated demodulators supporting all digital terrestrial TV (CTTB / DTMB) and cable (DVB-C) broadcast modes for the China and Hong Kong markets.

Both are fully GB20600-2006 and ITU-T J.83 Annex A/C compliant and exceed the performance requirements of the China Electronics Standardization Institute (Beijing Lab4) test specification.

Description

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Key Features

- GB20600-2006 compliant CTTB (DTMB) HDTV demodulator
- All CTTB single and multi carrier modes supported
- DVB-C ITU-T J.83 Annex A/C compliance
- Serial and parallel transport stream (TS) output
- Dual I2C interface (master/slave)
- On-chip DSP can real-time optimize receiver performance
- MT8864 is pin-compatible with the AU882x family of CTTB demodulators
- MT8865 is pin-compatible with the MT8861 CTTB-only demodulator
- MT8865 is also pin-compatible with the MT8536 ATSC / QAM demodulator
- Integrated memory – no need for external DRAM

Performance

- Exceed all requirements of the Beijing Lab 4 specification
- Excellent SFN (single frequency network) performance
- Excellent multipath performance for reception with in-door antennas
- Fast auto channel search and detection
- Optimized for best performance in all conditions (fading, echoes, impulse noise, etc.)
- Auto detection of spectrum inversion

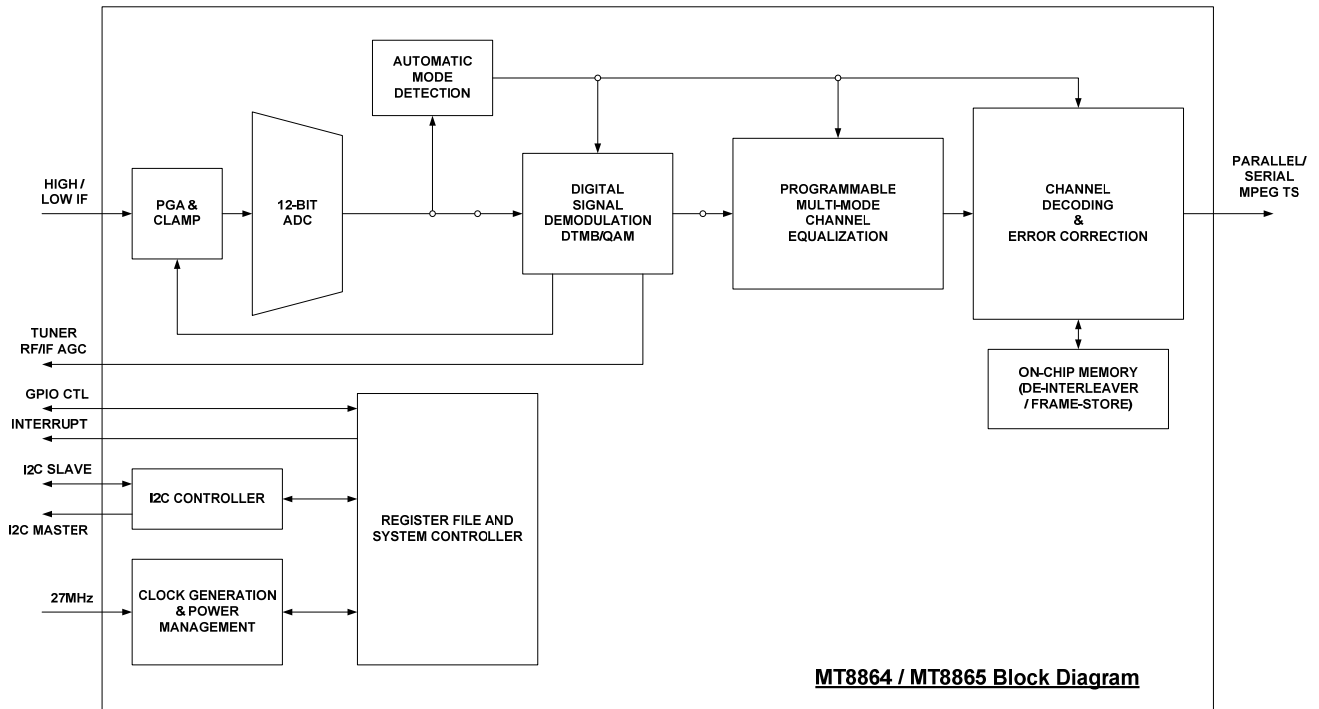
Package

- MT8864: 80 pin LQFP package (10 mm x 10 mm)
- MT8865: 64 pin LQFP package (10 mm x 10 mm)
- Compliant to RoHS and GADSL

MT8864 and MT8865 Target Segments

- Flat Panel HDTV's
- Set-Top Boxes
- DVD Players / Recorders
- PC-TV for Laptops and Desktops
- Static A/V CE devices
- Portable A/V CE devices

Block Diagram



Related Documents

- PB-00181 – MT8864 & MT8865 Product Brief (This document)

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