

MT8524, MT8534 & MT8536 Single-Chip Digital TV Demodulators

The MT8524, MT8534 and MT8536 ICs are highly sophisticated demodulators for digital terrestrial (ATSC 8-VSB) and digital cable (ITU-T J.83 Annex B) TV signals, which build on Microtune's powerful and efficient demodulator algorithm and adaptive filter technology.

Description

The MT8524, MT8534 and MT8536 are sophisticated demodulator ICs for digital terrestrial (ATSC 8-VSB) and digital cable (ITU-T J.83 Annex B) TV signals. The MT8524, MT8534 and MT8536 build on Microtune's powerful and efficient demodulation algorithms and adaptive signal tracking architectures engineered to deliver superior receiver performance. These demods are designed to provide best-in-class ATSC 8-VSB and US cable clear QAM demodulation in single, low-cost and low-power chips. This makes the ideal for terrestrial DTV front ends.

The MT8524's pin-out makes is fully compatible with the members of the AU8515 / AU852x family of ATSC demodulators. With the MT8524, existing designs can easily be converted to greener, more power-optimized products.

The MT8534's high-performance, small size and low-power makes it an ideal solution all DTV front-ends. The MT8536's pin-out makes is fully compatible with the members of the MT886x family of CTTB (DTMB) demodulators. This provides the unique opportunity to use one hardware design for ATSC and for CTTB (DTMB) applications.

Key Features

- ATSC A/74 compliant 8-VSB demodulation
- OpenCable™, ANSI/SCTE DVS-031, ITU-T J.83 Annex B, and DOCSIS compliant 64/256 QAM demodulation
- Integrated -30dB range analog RF and IF AGC controllers
- Fully programmable IF frequency
- Transport Stream and/or Program Stream outputs in parallel or serial format
- MT8524 is pin-compatible with the member of the AU852x family of ATSC/8VSB demodulators
- MT8534 is pin-compatible with the MT8535 ATSC/8VSB demodulator
- MT8536 is pin-compatible with the MT8861 and MT884 CTTB (DTMB) demodulators

Bus and Interface

- Dual I2C Bus support
- EIA/CEA-909 Smart Antenna Interface (Mode A)
- GPIO support

Package & Power

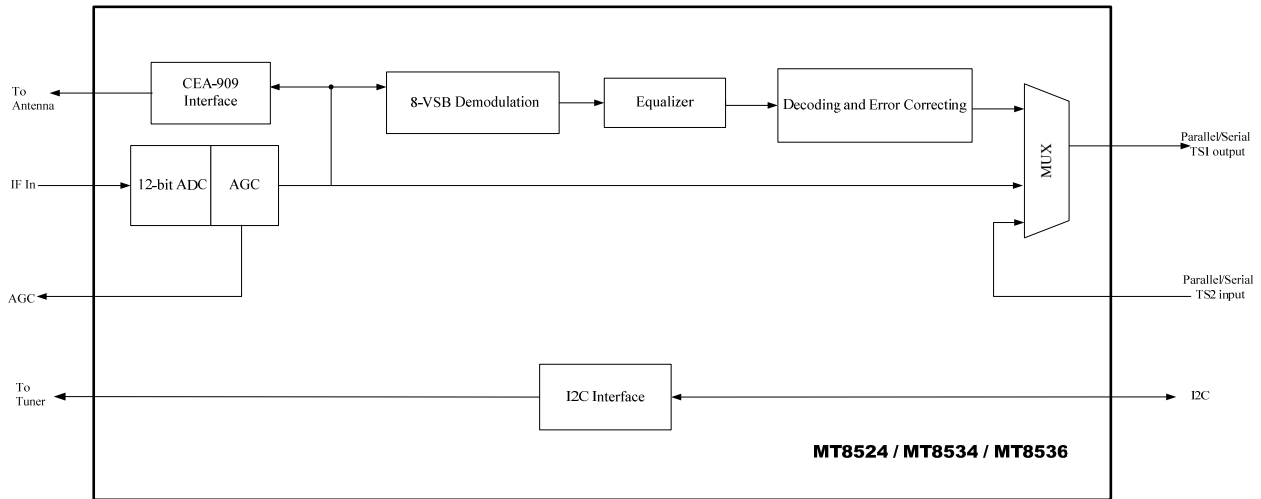
- MT8524: 128 pin LQFP package (14 mm x 14 mm)
- MT8534: 64 pin LQFP package (7 mm x 7 mm)
- MT8536: 64 pin LQFP package (10 mm x 10 mm)
- Typ. Power: <450 mW
- Low standby power: <20 mW
- Compliant to RoHS and GADSL

PRELIMINARY

MT8524, MT8534 and MT8536 Target Segments

- HDTV receivers
- Set-Top Boxes
- Portable DTV receivers
- PC-TV for Laptops and Desktops

Block Diagram



Related Documents

- PB-00178 – MT8524, MT8534 & MT8536 Product Brief (This document)

Contact and Ordering Information

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