

MT8515 & MT8535
 VSB Digital TV Demodulators

The MT8515 and MT8535 ICs are highly sophisticated demodulators for digital terrestrial (ATSC 8-VSB) signals, which build on Microtune's powerful and efficient demodulator algorithm and adaptive filter technology.

Description

The MT8515 and MT8535 are sophisticated demodulator ICs for digital terrestrial (ATSC 8-VSB) signals. The MT8515 and MT8535 are engineered to build on Microtune's powerful and efficient demodulation algorithms and adaptive signal tracking architectures to deliver superior receiver performance. These demods are designed to provide best-in-class ATSC 8-VSB demodulation in single, low-cost and low-power chips ideal for terrestrial DTV front ends. The MT8535's small size and low power make it well suited for any system – but especially low power, green and portable devices designed to receive information from DTV broadcasts including stand-alone SDTV or HDTV sets, set-top boxes, and PC peripheral appliances. The MT8515's pin-out makes it fully compatible with the members of the AU8515 / AU852x family of ATSC demodulators. This provides the opportunity to make existing designs greener and more power optimized!

Key Features

- ATSC A/74 compliant 8-VSB 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
- MT8515 is pin-compatible with AU8515 and the other member of the AU852x family of ATSC/8VSB demodulators
- MT8515 is pin-compatible with MT8524 ATSC/8VSB + QAM demodulator
- MT8535 is pin-compatible with MT8534 ATSC/8VSB + QAM demodulator

Bus and Interface

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

Package & Power – MT8515

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

Package & Power – MT8535

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

PRELIMINARY

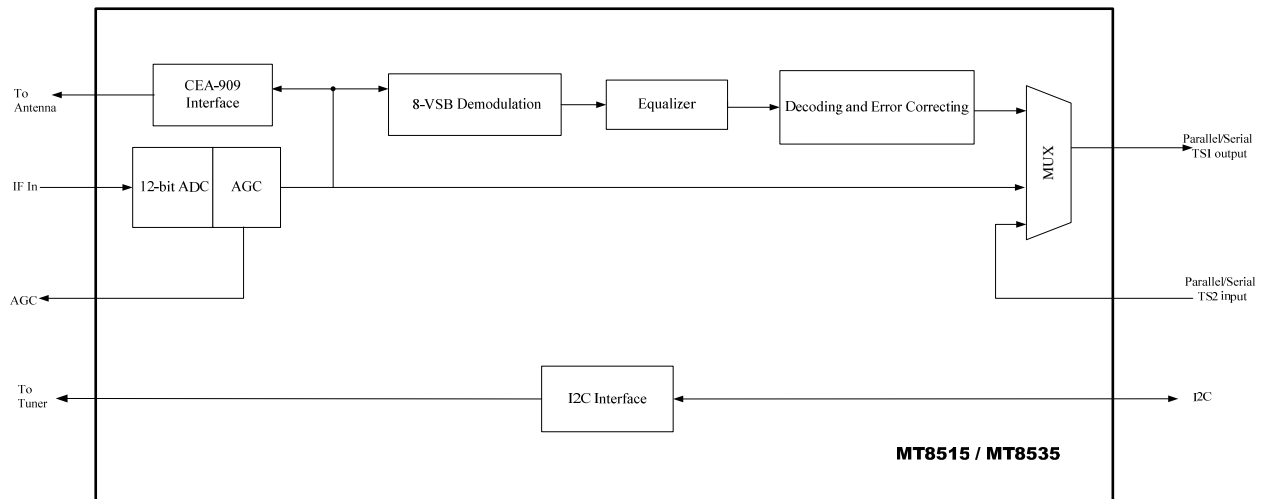
MT8515 Target Segments

- Set-Top Boxes
- PC-TV for Laptops and Desktops

MT8535 Target Segments

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

Block Diagram



Related Documents

- PB-00179 – MT8515 & MT8535 Product Brief (This document)

Contact and Ordering Information

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