

AU8515 VSB Digital TV Demodulator

The AU8515 is a sophisticated demodulator IC for digital terrestrial (ATSC 8-VSB) signal, which builds on Microtune's powerful and efficient demodulator algorithm and adaptive filter technology.

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Description

The AU8515 is a sophisticated demodulator IC for digital terrestrial (ATSC 8-VSB) signal. The AU8515 builds on Microtune's powerful and efficient demodulation algorithms and adaptive signal tracking architectures and is engineered to deliver superior receiver performance. The innovative features of the AU8515 consist of the digital ATSC 8-VSB demodulation provided in a single-chip, low-cost solution for terrestrial DTV front ends. Following demodulation and error correction, it provides an MPEG-2 transport stream to the transport demultiplexer. The AU8515's small size and low power make it well suited for any system designed to receive information from DTV broadcasts including stand-alone SDTV or HDTV sets, set-top boxes, and PC peripheral appliances.

Key Features

- ATSC A/74 compliant 8-VSB demodulation
- EIA/CEA-909 Smart Antenna Interface
- Integrated 12-bit ADC
- Integrated -30dB range analog RF and IF AGC controllers
- Fully programmable IF frequency
- Transport Stream and/or Program Stream inputs and outputs in parallel or serial format
- Pin-compatible with AU8524 ATSC/8VSB + QAM demodulator

Bus and Interface

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

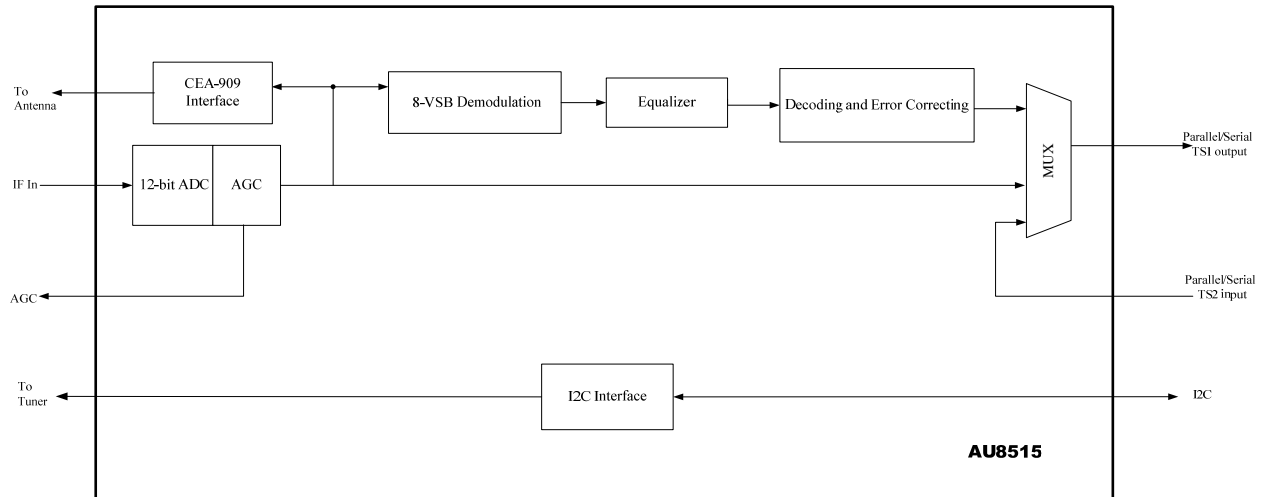
Package & Power

- 128 pin LQFP package (14 mm x 14 mm)
- Typ. Power: <600 mW
- Low standby power: <20 mW
- Compliant to RoHS and GADSL

AU8515 Target Segments

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

Block Diagram



Related Documents

- PB-00168 – AU8515 Product Brief (This document)
- DS-00126– AU8515 Data Sheet

Contact and Ordering Information

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