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AU8523**VSB/QAM DTV and NTSC ATV Demodulator**

The AU8523 is a sophisticated demodulator IC for digital terrestrial (ATSC 8-VSB), digital cable (ITU-T J.83 Annex B), analog NTSC/PAL TV signals, and BTSC/A2/FM broadcast audio, which builds on Microtune's powerful and efficient demodulator algorithm and adaptive filter technology. The AU8523 is an ideal device for HDTV, STBs and NIM tuner products.

Description

The AU8523 is designed to reduce system cost by using a single tuner for DTV and analog NTSC/PAL reception. The AU8523 demodulates video and audio in NTSC/PAL channels. The device directly accepts IF or low IF from the tuner section via an internal ADC (Analog to Digital Converter). Following demodulation and error correction, it provides an MPEG-2 transport stream to the transport demultiplexer.

The AU8523's small size and low power make it well suited for any system designed to receive information from DTV broadcasts. This includes stand-alone SDTV or HDTV sets, STBs, or NIM tuners.

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
- EIA/CEA-909 Smart Antenna IF (Mode A)
- Integrated 12-bit ADC
- Integrated -30dB range analog RF and IF AGC controllers
- Fully programmable IF frequency
- Transport Stream or Program Stream input/output in parallel or serial format Dual I²C Bus support

Analog TV Demodulation

- Built-in 10-bit 27MHz DAC
- TV/FM demodulation
- CVBS output

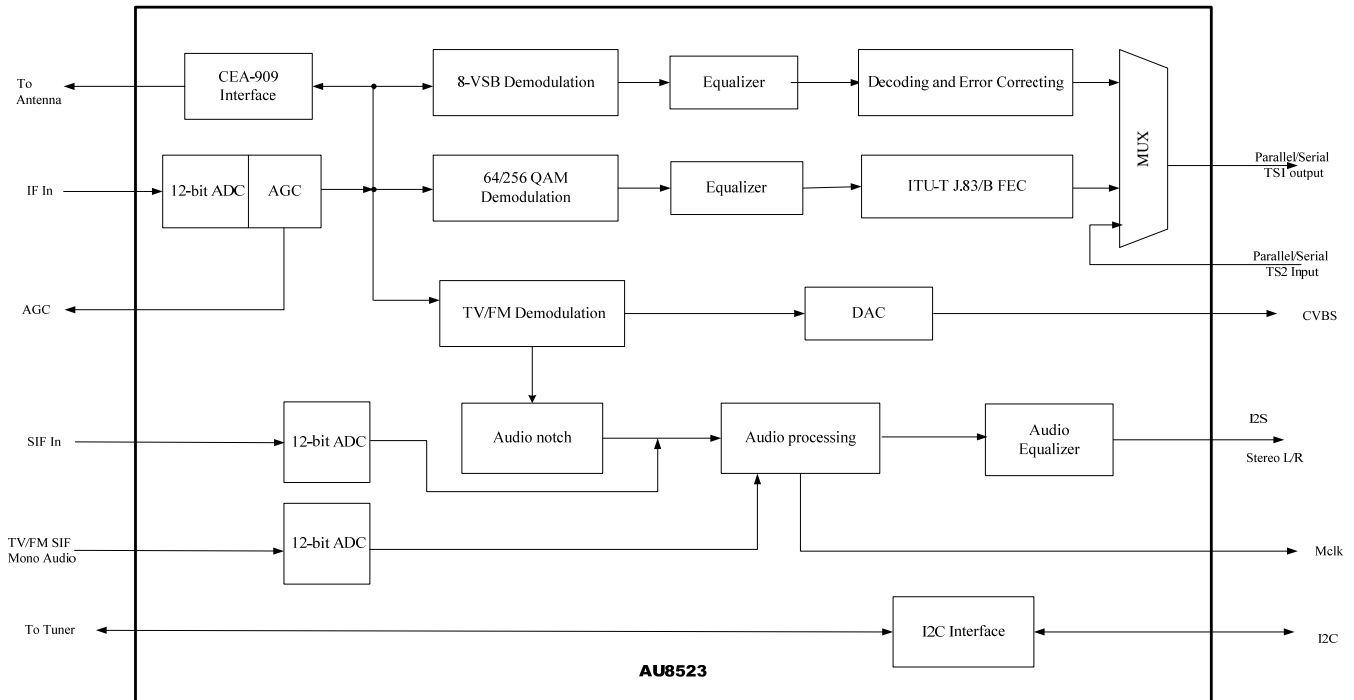
Package & Power

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

AU8523 Target Segments

- HDTV Sets
- IPTV Set-Top Boxes
- DVD Recorders
- PC-TV for Laptops and Desktops
- NIM Tuners

Block Diagram



Related Documents

- PB-00166 – AU8523 Product Brief (This document)
- DS-00122– AU8523 Data Sheet

Contact and Ordering Information

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