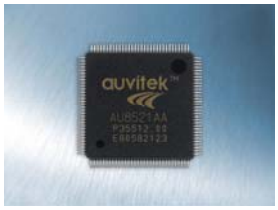
MICROTUNE

Product Brief



Related Product Information:

- Press Release
- Related Products
- Order Information
- Product Selector Guide

AU8521

Complete PC-TV ATSC and NTSC Demodulator with PCI Interface

The AU8521 is a fully integrated DTV + ATV demodulation IC designed specifically for PC-TV applications.

Description

The AU8521 is a fully integrated DTV + ATV demodulation IC designed specifically for PC-TV applications. Internally, the AU8521 consists of a fully compliant ATSC A/74 8-VSB demodulator, a 64/256 QAM demodulator, a complete NTSC/PAL analog TV demodulator and video decoder, and a BTSC/A2/FM audio decoder. The AU8521 directly accepts IF or low IF from the RF tuner section via a 12-bit internal Analog-to-Digital Converter, and outputs MPEG-2 transport stream to either PCI or a DMA interface. The AU8521 utilizes Microtune's proprietary demodulation and signal-tracking algorithms and is ideally suited for any PC-TV system that requires full support for legacy TV broadcast alongside DTV reception.

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 decoder
- EIA/CEA-909 Smart Antenna IF
- Integrated 12-bit ADC
- Integrated -30dB range analog RF and IF AGC controllers
- Fully programmable IF frequency
- Multiple GPIO pins
- PCI-bus and DMA PC interfaces

Analog TV Decoder

- NTSC/PAL demodulation and separation
- VBI data slicer and color controls
- Macrovision support
- BTSC/A2/FM compliant decoding
- 3-band audio EQ

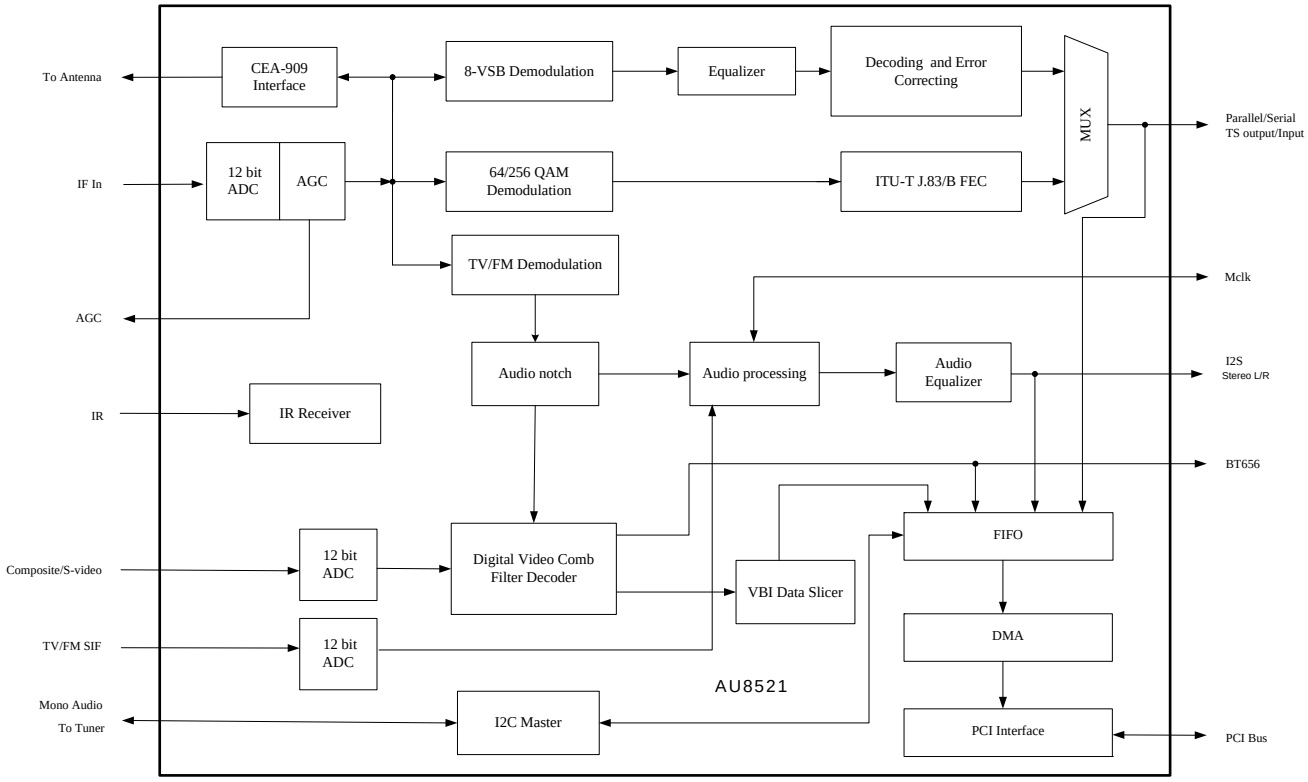
Package & Power

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

AU8521 Target Segments

- IPTV Set Top boxes
- DVD Recorders
- PC-TV for Laptops and Desktops

Block Diagram



Related Documents

- PB-00164 – AU8521Product Brief (This document)
- DS-00128– AU8521 Data Sheet

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