

The AU8524 is a sophisticated demodulator IC for digital terrestrial (ATSC 8-VSB) and digital cable (ITU-T J.83 Annex B) TV signals. The AU8524 builds on Auvitek's powerful and efficient demodulation algorithms and adaptive signal tracking architectures to deliver unprecedented receiver performance. The innovative features of the AU8524 include a fully compliant ATSC A/74 8-VSB demodulator and 64/256 QAM demodulator. The AU8524 directly accepts IF or low IF from the RF tuner section via a 12-bit internal Analog-to-Digital Converter, and following demodulation and error correction, outputs MPEG-2 transport stream. The AU8524's small size and low power make it well suited for any system designed to receive DTV broadcasts including stand-alone SDTV or HDTV sets, STBs, and PC peripherals.

AU8524 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 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
- ◆ Dual I2C Bus support
- ◆ Multiple GPIO pins

Package: 128-pin LQFP

APPLICATIONS

- 1) HD/SDTV receivers
- 2) Set-top boxes
- 3) PC peripherals

AU8524 BLOCK DIAGRAM

