

The AU8515 is a sophisticated demodulator IC for digital terrestrial (ATSC 8-VSB) signal. The AU8515 builds on Auvitek's powerful and efficient demodulation algorithms and adaptive signal tracking architectures to deliver unprecedented 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, STB's, and PC peripheral appliances.

AU8515 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
- ◆ Dual I2C Bus support
- ◆ Multiple GPIO pins

Package: 128-pin LQFP

APPLICATIONS

- 1) HD/SDTV receivers
- 2) Set-top boxes

AU8515 BLOCK DIAGRAM

