

## Advance Information

This document contains information on a product under development. The parametric information contains target parameters that are subject to change.

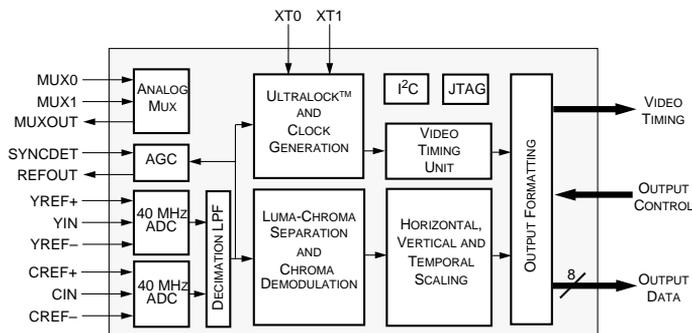


# BtV2811

## VideoStream Decoder

The BtV2811 is a single-chip, NTSC/PAL, composite and S-video decoder and scaler. Its low operating power consumption and power-down capability make it an ideal low-cost solution for PC video capture applications on both desktop and portable system platforms. BtV2811 supports square pixel and CCIR601 resolutions for both NTSC and PAL.

## Functional Block Diagram



## Distinguishing Features

- Single-Chip Composite/S-Video NTSC/PAL to YCrCb Digitizer
- On-Chip Ultralock™
- Square Pixel and CCIR601 Resolution for NTSC and PAL
- Chroma Comb Filtering
- Arbitrary Horizontal Scaling and Vertical Scaling (using line store)
- Arbitrary Temporal Decimation for a Reduced Frame-Rate Video Sequence
- Programmable Hue, Brightness, Saturation, and Contrast
- User-Programmable Cropping of the Video Window
- 2x Oversampling to Simplify External Analog Filtering
- Two-Wire I²C Bus Interface
- YCrCb (4:2:2) Output Format
- Software Selectable Two-Input Analog Mux
- Auto NTSC/PAL Format Detect
- Automatic Gain Control
- IEEE 1149.1 (JTAG) Interface
- 100-Pin PQFP Package

## Related Products

- BtV2115, BtV2487
- Bt812, Bt858, Bt855, Bt856, Bt857
- Bt851, Bt885, Bt895

## Applications

- Multimedia
- Image Processing
- Desktop Video
- Video Phone
- Teleconferencing
- Interactive Video



Figure 1. BtV2811 Detailed Block Diagram

