

CH7011A

**Brief Summary** 

## **Chrontel CH7011 TV Output Device**

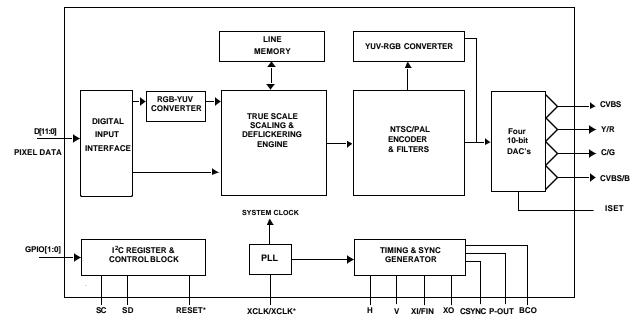
## Features

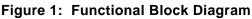
- TV output supporting up to 1024x768 graphics resolutions
- Macrovision<sup>TM</sup> 7.X copy protection support
- Programmable digital interface supports RGB and YCrCb
- TrueScale<sup>TM</sup> rendering engine supports underscan in all TV output resolutions
- Enhanced text sharpness and adaptive flicker removal with up to 7 lines of filtering
- Support for all NTSC and PAL formats
- Provides CVBS, S-Video and SCART (RGB) outputs
- TV connection detect
- Programmable power management
- 10-bit video DAC outputs
- Fully programmable through I<sup>2</sup>C port
- Complete Windows and DOS driver support
- Low voltage interface support to graphics device
- Offered in a 64-pin LQFP package

## **General Description**

The CH7011 is a display controller device which accepts a digital graphics input signal, and encodes and transmits data to a TV output (analog composite, s-video or RGB). The device accepts data over one 12-bit wide variable voltage data port which supports five different data formats including RGB and YCrCb.

The TV-Out processor will perform non-interlace to interlace conversion with scaling and flicker filters, and encode the data into any of the NTSC or PAL video standards. The scaling and flicker filter is adaptive and programmable to enable superior text display. Eight graphics resolutions are supported up to 1024 by 768 with full vertical and horizontal underscan capability in all modes. A high accuracy low jitter phase locked loop is integrated to create outstanding video quality. Support is provided for Macrovision<sup>TM</sup> and RGB bypass mode which enables driving a VGA CRT with the input data.





ORDERING INFORMATION			
Part number	Package type	Number of pins	Voltage supply
CH7011A-T	LQFP	64	3.3V

## Chrontel

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