

FEATURES

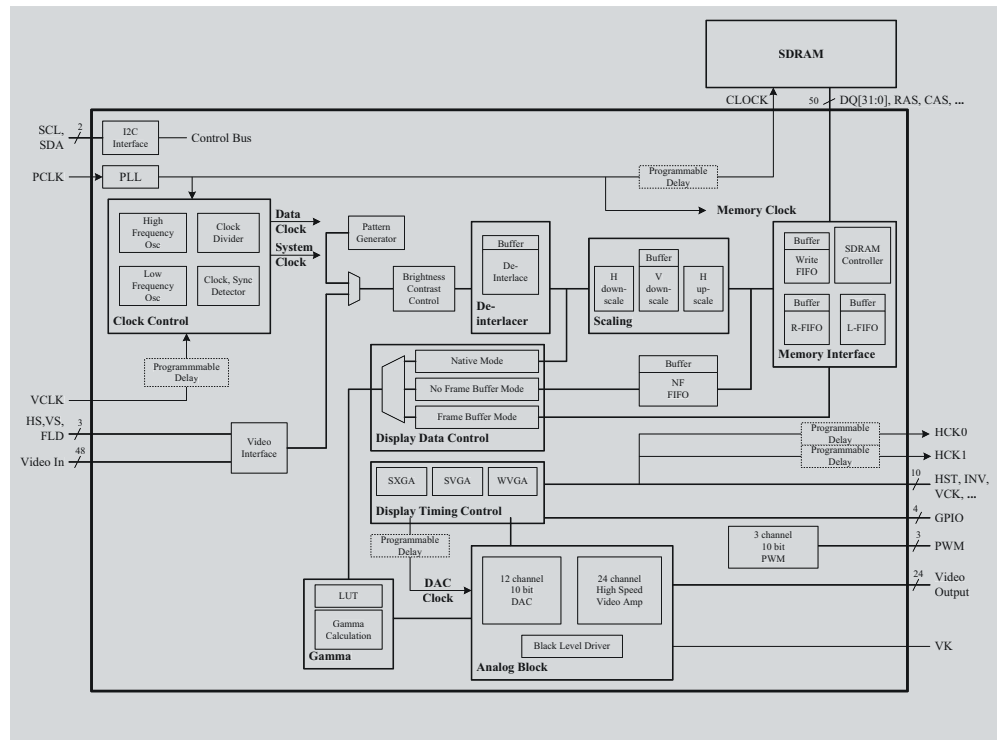
- Supports CyberDisplay® SXGA, SVGA, WVGA LV
- Digital video input formats
 - BT656/BT601 modes
 - Square-pixel variants of BT656/BT601
 - Separate HSYNC and VSYNC
 - Interlace or progressive mode
 - 720P mode
- I²C Interface
- Horizontal and vertical scaling
- Programmable gamma correction
- RGB 10-bit DACs and video amplifiers
- PWM backlight control
- Programmable contrast, brightness control on each RGB
- 3.3V operating voltage
- Power saving function
- 276-Ball FBGA package

Functional Description

The A910 driver IC supports Kopin's low-voltage, high-resolution color displays. It accepts a wide variety of digital video formats, including stereo modes for binocular SVGA and WVGA LV applications. Horizontal and vertical scalers match the input format to the displays physical pixel array. Integrated DACs and video amplifiers drive the display directly, eliminating the need for external amplifiers. Three independent PWM outputs provide digital brightness adjust and color balance when used with an RGB backlight.

The A910's memory controller interfaces to an external SDRAM frame buffer for use in some scaled and stereo modes. The memory controller and/or PLL may be disabled for low power operation with native formats. All the A910's options are configurable via an industry standard 2-wire serial interface.

BLOCK DIAGRAM



*Specifications subject to change without notice

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