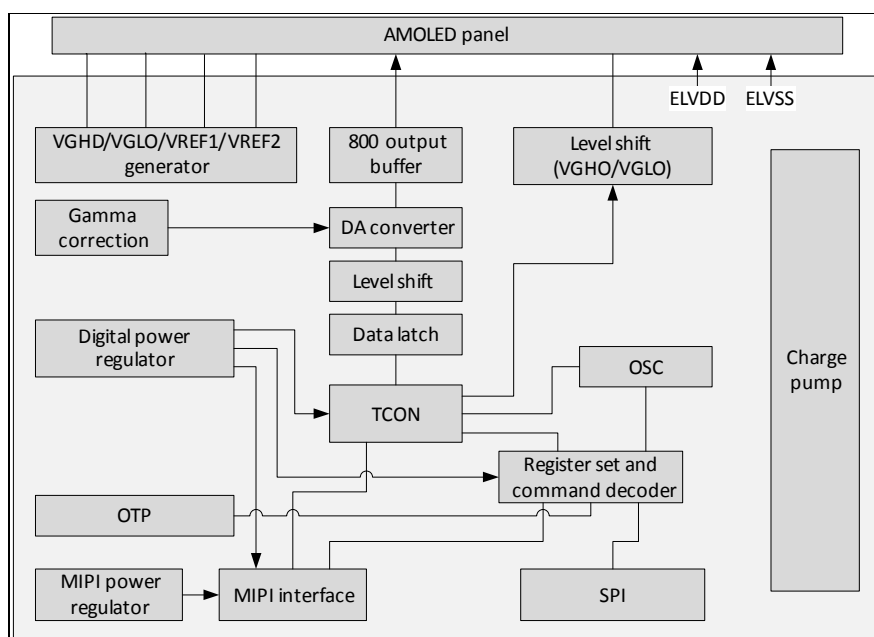


HD720 LTPS AMOLED Driver without GRAM

The ANX5650 is a single-chip solution for LTPS AMOLED. It incorporates gate driver, source driver, TCON, and PMU and supports resolutions up to 800RGB*1280 without internal GRAM. The ANX5650 supports 4-lane MIPI interface and serial peripheral interface (SPI). It also supports individual R/G/B Gamma correction setting to fit different panel characteristics with higher display qualities. The driver IC is suitable for displays/panels requiring long-term driving capabilities, such as digital audio players, cellular phones, PDA, and so on.

Features

- Resolution
 - 480 (RGB)*272
 - 480 (RGB)*800
 - 540 (RGB)*960
 - 720 (RGB)*1280
 - 800 (RGB)*1280
- Color mode
 - Full color mode: 16.7M colors (24-bit color)
 - Reduced color mode 1: 262K colors (18-bit color)
 - Reduced color mode 2: 65K colors (15-bit color)
 - Idle mode: 8 colors
- Display/power mode
 - Individual gamma curve for RGB
 - Deep standby function
 - Display on/display off
 - Sleep in/sleep out
 - All pixel on/all pixel off
 - Partial mode
 - Inversion display
- Interface
 - 16-bit serial peripheral interface (SPI)
 - MIPI display serial interface (4 lanes)
- Power supply voltage
 - I/O supply voltage VDDIO: 1.65V to 3.6V
 - Analog supply voltage VCI: 2.3V to 4.8V
 - OTP programming voltage VPP: 7.5±0.25V
- Miscellaneous
 - 1:3 demux for source output selection
 - OTP for gamma/ID/register setting
 - Power saving mode: standby/sleep in/8-color mode
 - Individual adjustment for R/G/B gamma curve
 - Built-in 6 steps brightness adjustment
 - Built-in dynamic ELVSS control
 - Automatic current limitation
 - Built-in COG bonding check
 - Operating temperature: -40~85°C
 - 38 GOA output with 26 individual waveforms
 - GOA/source output bump: 15um*110um
 - Input bump: 30um*178um



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