

EPD9111 is a 966-channel outputs source driver with integrated-Stream Protocol (iSP), which is used for driving the source line of TFT LCD panel. The EPD9111 converts 8-bit digital data into analog output voltages of 256-level gray scales, which can realize a display of 16M colors. EPD9111, characterized by its low power consumption and high stability, is extensively used in TV/MNT display panels, including FHD 180~360Hz, QHD 180~240Hz, and UHD 60~144Hz.

Features

- iSP (integrated-Stream Protocol) interface
- 966/960/864/726/720 channels outputs selectable
- Operating frequency: 300Mbps~3.4Gbps
 - BWMODE=L, 0.3Gbps~1.8Gbps; 1~2 pair
 - BWMODE=H, 1.0Gbps~3.4Gbps; 1 pair
- Output dynamic range: VSSA+0.2V to VDDA-0.2V
- Digital supply voltage: 1.6V to 2.0V
- Analog supply voltage: 10V to 18V
- Half-VDDA architecture
- Capability of outputting 256-level gray scales by means of 2 external γ reference voltages
- Programmable gamma function (iGMA1~iGMA14)
 - Optional usage
 - 1) programmable gamma with 2 external gamma input
 - 2) support 14 external gamma input while disabling programmable gamma
- Applicable to DOT inversion, N-line inversion, Column inversion driving methods
- Clock embedded with 8B/9B coding technique for iSP interface
- Scrambler (SCR) function
- Equalizer function (EQ)
- Internal STB function (iSTB)
- Charge sharing function (CS)
- Built-in Power On/Off Reset (POFR) function
- COF packaging

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