

EW9082 is a 1026/966/960/804 channels data driver IC with Mini Low Voltage Differential Signaling (Mini-LVDS) interface for color TFT LCD panel. For better performance, a wide range of supply voltages and small output deviations were implemented in this chip. This chip also supplies 14 sections of voltage-reference for gamma correction. The power dissipation on the gamma correction resistors is also concerned, making this chip more suitable for mid or small sized color TFT panels.

Features

- Output: 1026/966/960/804 output channels
- 6-bit resolution / 64 gray scale
- Dot inversion with polarity control
- VG[1] ~ VG[14] for adjusting Gamma correction
- Power of LCD driving voltage: 7.5V ~ 13.5V, supporting HVDDA mode/Full VDDA mode (selection by different version)
- Output dynamic range: 0.2V ~ VDDA-0.2V
- Power for interface circuit: 2.3V~3.6V
- Mini-LVDS maximum operating frequency: 330MHz
- Mini-LVDS input interface (3-pairs or 6-pairs serial data input) for low EMI
- Cascade function with bi-direction shift control
- Adaptive charge sharing (ACS) function
- Horizontal dot inversion function (H2DOT)
- Change polarity function (POLC)
- Programmable gamma buffer/without Programmable gamma buffer (selection by different version)
- COG packaging

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