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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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15-Channel I²C Programmable TFT-LCD Reference Voltage Generator with Integrated EEPROM, and Ultra-low Power Operation

ISL24858

The ISL24858 is a programmable reference voltage generator for TFT-LCDs featuring ultra-low power operation. The ISL24858 contains an I²C programmable, 10-bit, 14-channel gamma reference voltage generator with buffered outputs, a 10-bit programmable V_{COM} calibrator, a high output current V_{COM} amplifier, and internal EEPROM to store all reference voltage data. The EEPROM features an endurance of 10,000 write cycles.

Combining gamma and V_{COM} reference voltage generators with low power operation and EEPROM, the ISL24858 provides a complete reference voltage solution ideal for tablet, monitor, and mobile TFT-LCD applications.

The ISL24858 is available in a super thin 28 Ld 4x5mm X2QFN thermally enhanced package. It is specified for operation over the -40 °C to +105 °C ambient temperature range.

Features

- 15-Channel Reference Voltage Outputs, I²C Programmable:
 - 14-Channel Gamma References, 10-bit Resolution with Buffered Outputs
 - 1-Channel V_{COM} Calibrator with 10-bit Resolution
- High Output Current V_{COM} Amplifier
- Ultra-low Power Operation, Ideal for Tablet and Mobile Applications: Typical Quiescent Power, 12mW @ 8V A_{VDD}
- EEPROM Endurance: 10,000 Write Cycles
 - Read/Write Capable Over 2.25V to 3.6V D_{VDD} Range
- 6.3V to 19V Analog Supply Operating Range
- 2.25V to 3.6V Digital Supply Operating Range
- 28 Ld 4x5mm Super Thin X2QFN Package
- Pb-free (RoHS Compliant)

Applications

- Tablet, Notebook, Monitor TFT-LCD
- Mobile - 2D/3D TFT-LCD
- General-Purpose Reference Voltage Generator

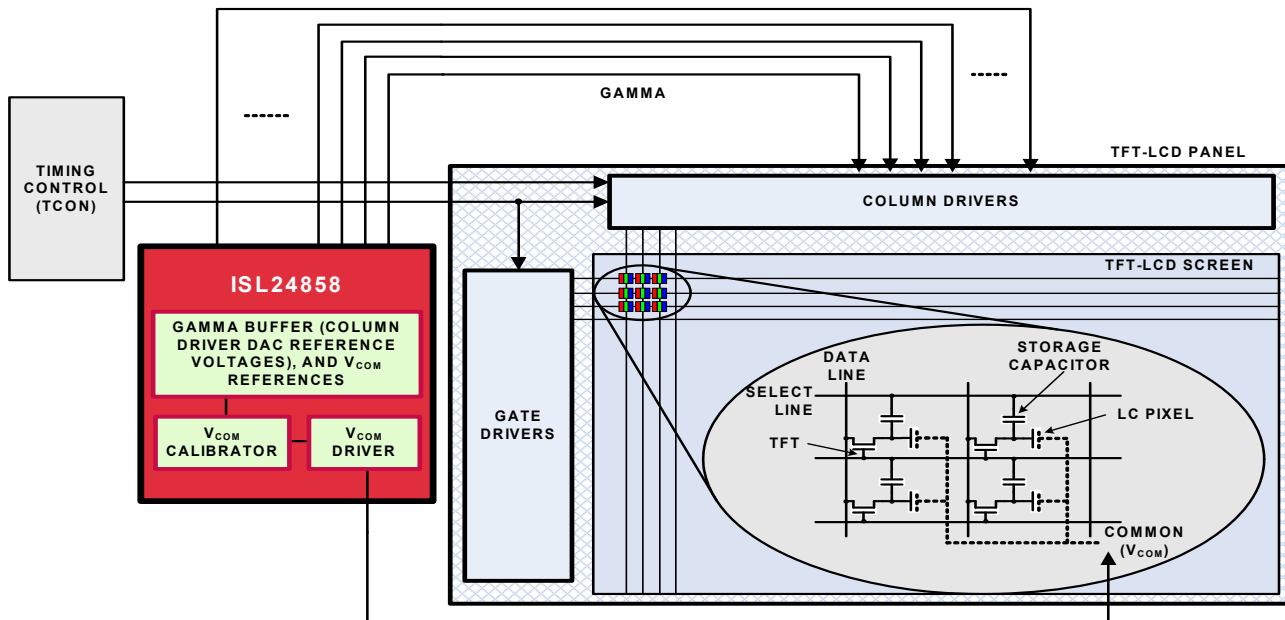


FIGURE 1. TYPICAL APPLICATION: TFT-LCD REFERENCE VOLTAGE GENERATOR

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