

ISL24822

Programmable 14-Channel x 2 Bank, 10-bit TFT-LCD V_{REF} Generator with Buffered V_{COM} Calibrator

FN6664
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The ISL24822 is a programmable 14-Channel, 10-bit reference voltage generator with a digitally-controlled V_{COM} Calibrator and op amp. Two selectable banks of 14 channels allow fast hardware or software switching between 2 different gamma curves. The ISL24822 is configured and controlled via a standard I^2C Interface.

The ISL24822 is available in a 32 Ld TQFN package and is specified for operation over the $-40^{\circ}C$ to $+85^{\circ}C$ temperature range.

Applications

- TFT-LCD column driver reference generator
- General-purpose reference voltage generators

Features

- 14 I^2C -programmable 10-bit DACs
- Integrated programmable V_{COM} calibrator
- V_{COM} op amp
- 2 Banks of volatile memory for DACs
- 4.5V to 19V analog supply range
- 2.25V to 3.6V digital supply range
- 20mA analog supply current (unloaded)
- 700 μA digital supply current
- I^2C serial interface
- Pb-free (RoHS compliant)

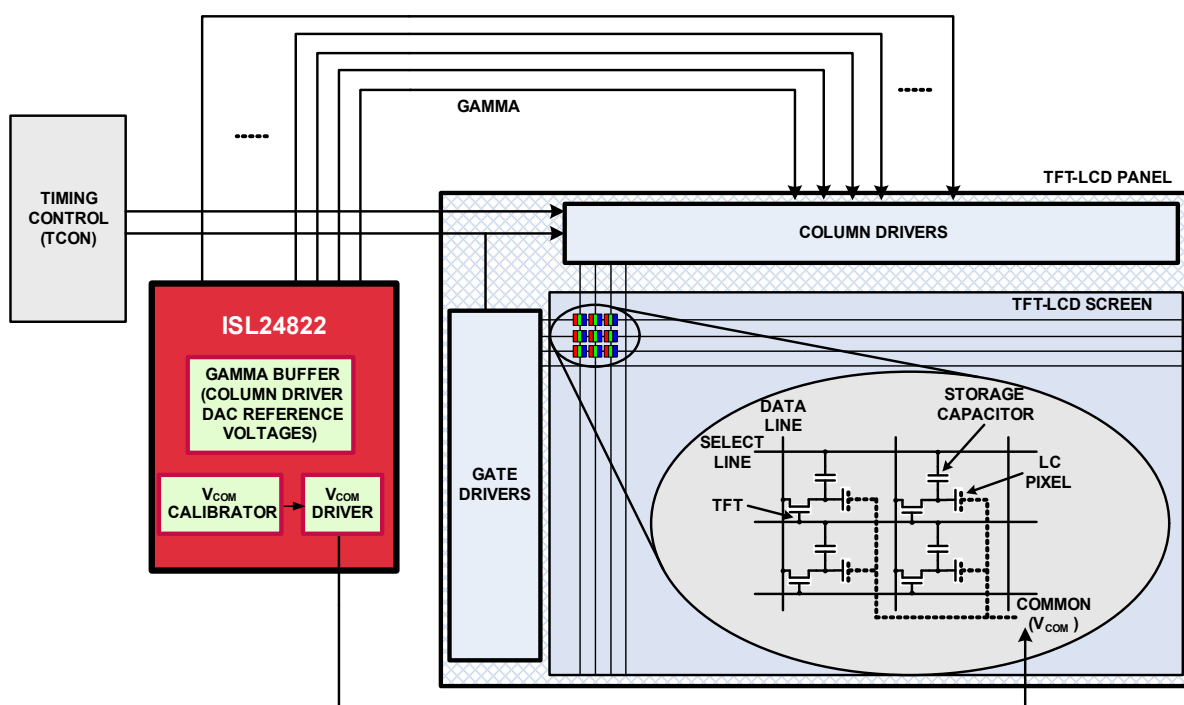


FIGURE 1. TYPICAL APPLICATION: TFT-LCD REFERENCE VOLTAGE GENERATOR

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