

# ISL24813

Programmable 18-Channel x 2 Bank, 10-Bit TFT-LCD  $V_{REF}$  Generator with Buffered  $V_{COM}$  Calibrator

FN6615  
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The ISL24813 is an  $I^2C$  programmable 18-channel, 10-bit reference voltage generator with a digitally controlled  $V_{COM}$  calibrator and op amp. Two selectable banks of 18 channels allow fast hardware or software switching between two different gamma curves. The ISL24813 is configured and controlled via a standard  $I^2C$  interface.

ISL24813 is available in a 32 Ld TQFN package and is specified for operation across the  $-40^{\circ}C$  to  $+85^{\circ}C$  temperature range.

## Features

- 18  $I^2C$  programmable 10-bit DACs
- Integrated programmable  $V_{COM}$  calibrator
- One  $V_{COM}$  op amp
- Two banks of volatile memory for DACs
- 5V to 18V analog supply range
- 2.5V to 3.3V digital supply range
- 20mA analog supply current (unloaded)
- 700 $\mu A$  digital supply current
- $I^2C$  serial interface
- Pb-free (RoHS compliant)

## Applications

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

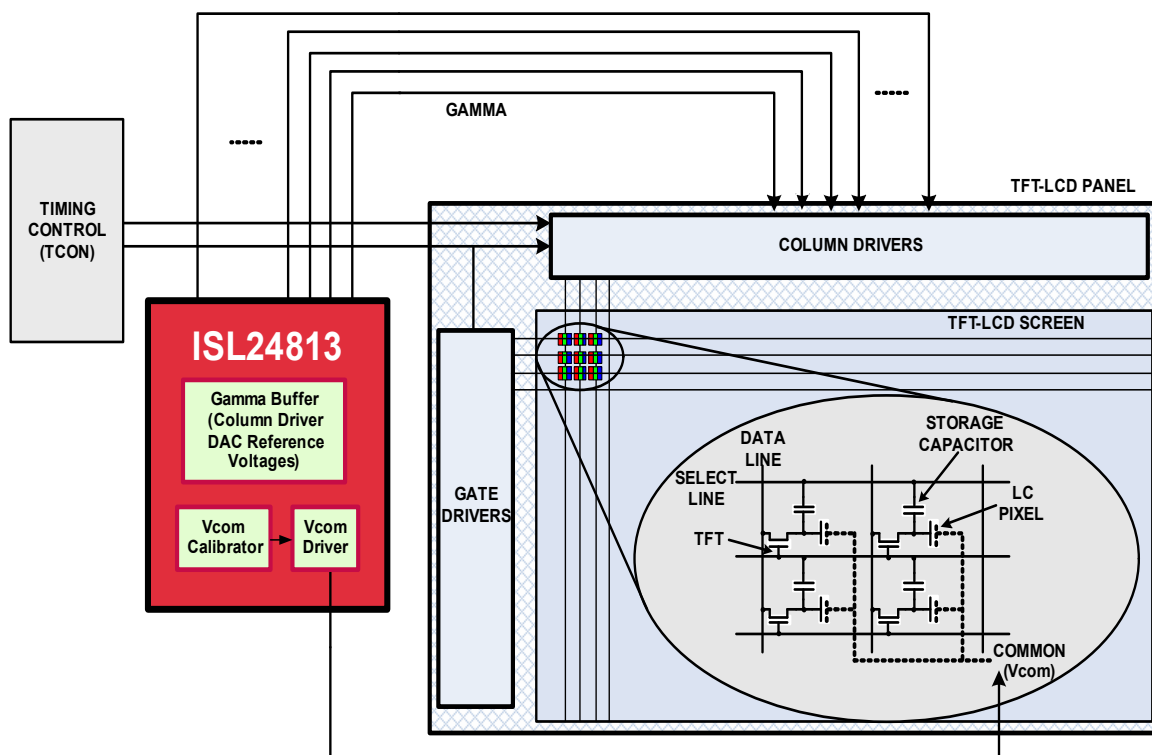


FIGURE 1. TYPICAL APPLICATION CIRCUIT

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