Device Information

ISL24832 Print Page

17-Channel I²C Programmable TFT-LCD Reference Voltage Generator, with Dual Bank Outputs and Integrated EEPROM

- Features Description
 Technical Documentation
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- Pricing / Samples
- Related Devices

Datasheet



ISL24832

Programmable Gamma Buffer Data Sheet Request Form

# of Devices/ Channels	17
V _S (V)	10.8 to 19
Bus Interface Type	I ² C
Bus Interface Speed (MHz)	400
Rail-to-Rail	Out
I _S (mA)	20

Product Information

Key Features

17-Channel Reference Voltage Outputs, I²C Programmable with 10-bit Resolution:

16-Channel Gamma References, with Buffered Dual Bank Outputs

1-Channel V_{COM} Calibrator, with Amplifier Output

Low Power: Ideal for Tablet and Mobile TFT-LCD Applications, I_{AVDD} = 5mA @ 15V

Two Banks of EEPROM: Re-writable >300 times

Fast Output Bank Switching Time: <1µs Typical

10.8V to 19V Analog Operating Supply Range

2.25V to 3.6V Digital Operating Supply Range

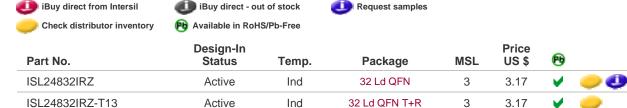
Pb-free (RoHS Compliant)

Description

The ISL24832 is a power optimized programmable reference voltage generator for TFT-LCDs.

For more detailed device information, please request the device datasheet through the online request form: Programmable Gamma Buffer Data Sheet Request Form

Pricing / Packaging / Samples / Ordering



The price listed is the manufacturer's suggested retail price for quantities of 1K units. However, prices in today's market are fluid and may change without notice.

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

SMD = Standard Microcircuit Drawing

Technical Documentation

Datasheet(s):

IN Programmable Gamma Buffer Data Sheet Request Form

Technical Homepage: Display Products

Tools And Support

iSim Design Simulation

No Models Available

Applications

TFT-LCD Tablet PC, Monitors Mobile, 2D/3D TFT-LCD General-Purpose Reference Voltage Generator

Parametric Table

ľ	Related Dev	Parametric Table
	EL5126	8-Channel TFT-LCD Reference Voltage Generator
	EL5225	10-Channel TFT-LCD Reference Voltage Generator
	EL5226	10- and 12-Channel TFT-LCD Reference Voltage Generator
	EL5325	12-Channel TFT-LCD Reference Voltage Generator
	EL5326	10- and 12-Channel TFT-LCD Reference Voltage Generator
	EL5525	Not Recommended for New Designs, No Recommended Replacement. Contact our Technical Support Center at 1-888-INTERSIL or www.intersil.com/tsc 18-Channel TFT-LCD Reference Voltage Generator
	ISL24002	14-Channel Static TFT LCD Reference Voltage Generator with 1-Channel V_{COM}
	ISL24005	14-Channel Programmable I ² C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator
	ISL24006	14-Channel Programmable Switchable I ² C TFT-LCD Reference Voltage Generator with Integrated 4 -Channel Static Gamma Drivers
	ISL24007	14-Channel Programmable Switchable I ² C TFT-LCD Reference Voltage Generator with Integrated 4 -Channel Static Gamma Drivers
	ISL24008	14-Channel Programmable SPI TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator
	ISL24813	18-Channel Programmable I ² C TFT-LCD Reference Voltage Generator with 1-Channel VCOM and Integrated Programmable VCOM Calibrator
	ISL24821	12-Channel Programmable Switchable I ² C TFT-LCD Reference Voltage Generator with Integrated 1 -Channel Op Amp and V _{COM} Calibrator
	ISL24822	14-Channel Programmable I^2 C TFT-LCD Reference Voltage Generator with 1-Channel V_{COM} and Integrated Programmable V_{COM} Calibrator
	ISL24833	18-Channel Programmable I^2 C TFT-LCD Reference Voltage Generator with V_{COM} , Integrated V_{COM} Calibrator and 2 Banks of Integrated EEPROM
	ISL24837	8-Channel Programmable I2C TFT-LCD Reference Voltage Generator with Band Gap Trimmed Reference, 4-Channel Programmable Amps with Negative Feedback Inputs, 1-Channel V_{COM} Op Amp, Integ. V_{COM} Calibrator and 2 Banks of Integ. EEPROM
	ISL24837A	Programmable TFT-LCD VREF Generator

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