Device Information

ISL24832

17-Channel I^{2}C Programmable TFT-LCD Reference Voltage Generator, with Dual Bank Outputs and Integrated EEPROM

* **Features Description**
* **Technical Documentation**
* **Pricing / Samples**
* **iSim Design Simulation**
* **Tools And Support**
* **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, I^{2}C 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

🔴 iBuy direct from Intersil   ⚫ iBuy direct - out of stock   🔵 Request samples

🟡 Check distributor inventory   🟢 Available in RoHS/Pb-Free

Part No.	Design-In Status	Temp.	Package	MSL	Price US $	Pb		
ISL24832IRZ	Active	Ind	32 Ld QFN	3	3.17	✔	🟡	🔵
ISL24832IRZ-T13	Active	Ind	32 Ld QFN T+R	3	3.17	✔	🟡	

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):
> **EN** 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

Related Devices   **PT** Parametric Table

Device	Description
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^2C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator
ISL24006	14-Channel Programmable Switchable I^2C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers
ISL24007	14-Channel Programmable Switchable I^2C 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^2C TFT-LCD Reference Voltage Generator with 1-Channel VCOM and Integrated Programmable VCOM Calibrator
ISL24821	12-Channel Programmable Switchable I^2C TFT-LCD Reference Voltage Generator with Integrated 1-Channel Op Amp and V_{COM} Calibrator
ISL24822	14-Channel Programmable I^2C TFT-LCD Reference Voltage Generator with 1-Channel V_{COM} and Integrated Programmable V_{COM} Calibrator
ISL24833	18-Channel Programmable I^2C 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