



**THE DATASHEET OF  
ISL24832IRZ-T13**



## Device Information

### ISL24832

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17-Channel I<sup>2</sup>C Programmable TFT-LCD Reference Voltage Generator, with Dual Bank Outputs and Integrated EEPROM

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### Datasheet



#### ISL24832

Programmable Gamma Buffer Data Sheet Request Form

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

### Product Information

#### Key Features

- 17-Channel Reference Voltage Outputs, I<sup>2</sup>C Programmable with 10-bit Resolution:
- 16-Channel Gamma References, with Buffered Dual Bank Outputs
- 1-Channel V<sub>COM</sub> Calibrator, with Amplifier Output
- Low Power: Ideal for Tablet and Mobile TFT-LCD Applications, I<sub>AVDD</sub> = 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 \$			
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

 [Parametric Table](#)

<a href="#">EL5126</a>	8-Channel TFT-LCD Reference Voltage Generator
<a href="#">EL5225</a>	10-Channel TFT-LCD Reference Voltage Generator
<a href="#">EL5226</a>	10- and 12-Channel TFT-LCD Reference Voltage Generator
<a href="#">EL5325</a>	12-Channel TFT-LCD Reference Voltage Generator
<a href="#">EL5326</a>	10- and 12-Channel TFT-LCD Reference Voltage Generator
<a href="#">EL5525</a>	<b>Not Recommended for New Designs, No Recommended Replacement. Contact our Technical Support Center at 1-888-INTERSIL or <a href="http://www.intersil.com/tsc">www.intersil.com/tsc</a></b> 18-Channel TFT-LCD Reference Voltage Generator
<a href="#">ISL24002</a>	14-Channel Static TFT LCD Reference Voltage Generator with 1-Channel $V_{COM}$
<a href="#">ISL24005</a>	14-Channel Programmable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator
<a href="#">ISL24006</a>	14-Channel Programmable Switchable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers
<a href="#">ISL24007</a>	14-Channel Programmable Switchable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers
<a href="#">ISL24008</a>	14-Channel Programmable SPI TFT-LCD Reference Voltage Generator with Integrated 4-Channel Static Gamma Drivers and Integrated Programmable Vcom Calibrator
<a href="#">ISL24813</a>	18-Channel Programmable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with 1-Channel VCOM and Integrated Programmable VCOM Calibrator
<a href="#">ISL24821</a>	12-Channel Programmable Switchable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with Integrated 1-Channel Op Amp and $V_{COM}$ Calibrator
<a href="#">ISL24822</a>	14-Channel Programmable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with 1-Channel $V_{COM}$ and Integrated Programmable $V_{COM}$ Calibrator
<a href="#">ISL24833</a>	18-Channel Programmable I <sup>2</sup> C TFT-LCD Reference Voltage Generator with $V_{COM}$ , Integrated $V_{COM}$ Calibrator and 2 Banks of Integrated EEPROM
<a href="#">ISL24837</a>	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
<a href="#">ISL24837A</a>	Programmable TFT-LCD VREF Generator

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View ISL24832IRZ-T13 on WIN SOURCE](#)
-  [Renesas Electronics America](#) Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management