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SSD1848C

Introduction

Advanced Information

130 x 130 STN
LCD Segment/ Common 4G'S and Mono Driver with Controller

SSD1848C is a single-chip CMOS LCD driver with controller for dot-matrix graphic liquid crystal display system. SSD1848C consists of 260 high-voltage driving output pins for driving maximum 130 Segments, 130 Commons.

SSD1848C consists of 130 x 130 x 2 bits Graphic Display Data RAM (GDDRAM). Data/Commands are sent from common MCU through 8-bit 6800-series / 8080-series compatible Parallel Interface or 3-wires / 4-wires Serial Peripheral Interface by software program selections.

SSD1848C embeds DC-DC Converter, On-Chip Oscillator and Bias Divider to reduce the number of external components. With the advance design, low power consumption, stable LCD operating voltage and flexible die package layout, SSD1848C is suitable for any portable battery-driven applications requiring long operation period with compact size.

Features

- Power Supply:
 - $V_{DD} = 2.4V - 3.3V$
 - $V_{DDIO} = 1.7V - V_{DD}$
 - $V_{CI} = V_{DD} - 3.3V$
- LCD Driving Output Voltage: max. $V_{OUT} = +15V$
- Maximum display size: 130 columns by 130 rows
- 8-bit 6800-series / 8080-series Parallel Interface, 3-wires and 4-wires Serial Peripheral Interface
- On-Chip 130 x 130 x 2 = 33,800 bits Graphic Display Data RAM
- Column Re-mapping and RAM Page scan direction control
- Vertical Scrolling by Common
- On-Chip Voltage Generator or External LCD Driving Power Supply Selectable
- Software selectable 4X / 5X / 6X / 7X On-Chip DC-DC Converter
- Programmable LCD Driving Voltage Temperature Compensation Coefficients
- On-Chip Bias Divider with internal compensation capacitors (except V_{OUT})
- Programmable multiplex ratio: 1/16 to 1/128 and 1/130
- Programmable bias ratio: 1/4, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10, 1/11, 1/12, 1/13
- Display Offset Control
- Dual Level Non-Volatile Memory (OTP) for V_{OUT} calibration
- N-line inversion
- 64 Levels Internal Contrast Control

Ordering Information

Ordering Part No.	Package
SSD1848CZ	Gold Bump Die
SSD1848CU	COF

Contact our sales representative for more information:

Tel: (852) 2207 1111
sales@solomon-systech.com

or

[Request a datasheet](#)