

**Notebook and Tablet LCD Panel  
Level-shifter with 8-Ch. Output  
and Gate Pulse Modulator**

**Features**

- 4.5 V to 20 V Input Supply Voltage Range
- High-Voltage Level Shifter
  - . Logic Level Inputs
  - . -12 V to 38 V Output Rails
  - . Gate Pulse Modulator

**Applications**

- LCD Notebook and Tablet Panels

**Description**

The SM4007 consists of a high-voltage level-shifting scan driver (level-shifter) with the gate pulse modulator (GPM). The gate pulse modulator provides a modulated voltage synchronized with clock signal FLK1, 2. The high-voltage level-shifting scan drivers with the GPM are fitted for capacitive loads and work well with panels that contain row drivers on the panel glass. The device is optimized for thin-film transistor (TFT) liquid crystal display (LCD) applications.

**Device Information**

Part	Package	Size
SM4007	28 QFN	5 mm x 5 mm

Silicon Mitus cannot assume any responsibility for the consequence of use of information furnished nor for any infringement of patents or other rights of third parties which may result from its use. No Circuit patent licenses are implied. Silicon Mitus reserves the right to change the circuitry and specifications without notice at any time. This publication supersedes and replaces all information previously supplied. Silicon Mitus products are not authorized for use as critical components in life support devices or systems without the express written approval of Silicon Mitus.

© 2018 Silicon Mitus, Inc. - Printed in Korea - All Rights Reserved