

Features

- CMOS Technology
- +/-15 Volt Output Driver Supply Voltage
- Drives Segment or Active Matrix Displays
- 4-Level Gray Scale
- 25MHz Clock Frequency
- Bidirectional Data Transfer
- Selectable Register Length
- 2.7V to 5.5V Logic Supply Voltage
- Cascadable

Applications

- eBooks / eReaders
- Electronic Shelf Labels / Point Of Purchase Displays
- Mobile Phones / Portable Hand Held Devices
- Smart Cards
- Signage

Ordering Information

Part	Description
MX860WB	Gold Bumped Die / Wafer Form
MX860XB	Gold Bumped Die / Waffle Pack
MX860TC	48mm Super Wide Tape Carrier

Description

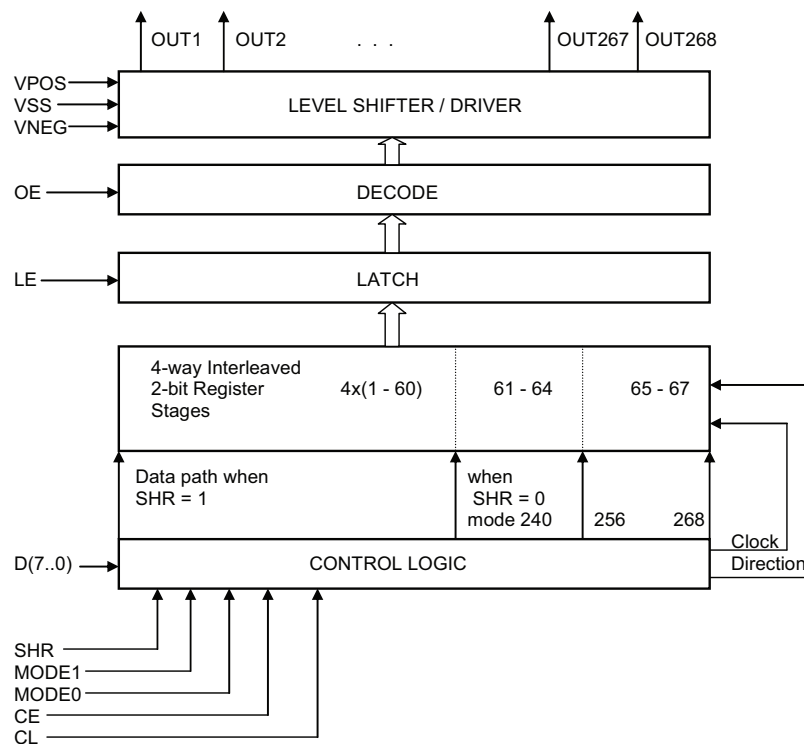
The MX860 is a selectable 240, 256, or 268 bit long; 2-bit wide; serial-input parallel-output digital shift register with level conversion on each parallel output. Level conversion converts the 2 digital bits into V_{POS} , V_{SS} , or V_{NEG} analog output voltages. An 8-bit input bus simultaneously inputs 4 groups of 2 bits each.

The MX860 consists of a selectable length Bidirectional Input Register, Transfer Latch, and 268-bit Level Shifter / Output Driver. Each OUT pin is switched to one of [V_{SS} , V_{POS} , V_{NEG}] according to the D0...D7 logic levels clocked into the MX860, modified by the OE pin.

The MX860 is designed to operate over a temperature range of -40°C to +85°C, and is available as Gold Bumped Die in Wafer Form or Waffle Pack, and 48mm Super-Wide Tape Carrier Package.



Figure 1. Functional Block Diagram



[Click here to request a full data sheet](#)

Clare provides its clients and potential customers with the best and most complete data and specifications possible, which might include proprietary information. Therefore, we require that the linked form be completed in order to request a comprehensive datasheet.

If you have special requests or if you don't see the data sheet you need, please feel free to ask in the Notes section of the form, or simply call us.

We do not share this information with anyone, and you will not receive unsolicited email.

[For additional information please visit our website at: www.clare.com](http://www.clare.com)

Clare, Inc. makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. Neither circuit patent licenses nor indemnity are expressed or implied. Except as set forth in Clare's Standard Terms and Conditions of Sale, Clare, Inc. assumes no liability whatsoever, and disclaims any express or implied warranty, relating to its products including, but not limited to, the implied warranty of merchantability, fitness for a particular purpose, or infringement of any intellectual property right.

The products described in this document are not designed, intended, authorized or warranted for use as components in systems intended for surgical implant into the body, or in other applications intended to support or sustain life, or where malfunction of Clare's product may result in direct physical harm, injury, or death to a person or severe property or environmental damage. Clare, Inc. reserves the right to discontinue or make changes to its products at any time without notice.

Specification: PB-MX860-20110729
©Copyright 2011, Clare, Inc.
All rights reserved. Printed in USA.
7/29/2011