IXEP1400
400-Channel ePaper Source Driver

Features

- +/-15 Volt Output Driver Supply Voltage
- Drives Segment or Active Matrix Displays
- 3-Level Gray Scale
- 50MHz Clock Frequency
- Bidirectional Data Transfer
- 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

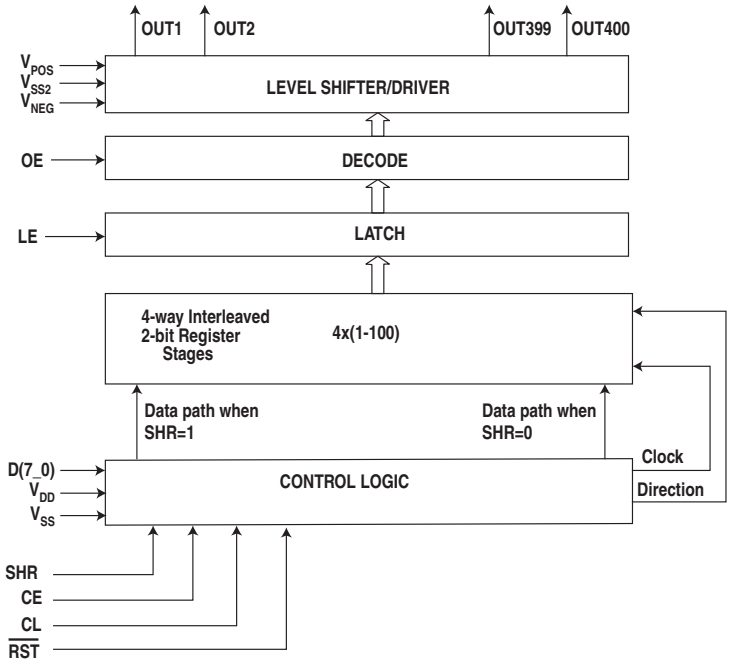
Part	Description
IXEP1400WB	Gold Bumped Die / Wafer Form
IXEP1400XB	Gold Bumped Die / Waffle Pack

Description

The IXEP1400 is a 400-channel e-Paper source driver. The IXEP1400 features a 400-bit long, 2-bit wide serial-input parallel-output digital shift register with a level conversion on each parallel output. This converts the 2 digital bits into either V_{POS}, V_{SS}, or V_{NEG} analog output voltages. An 8-bit input bus simultaneously inputs 4 groups of 2 bits each.

The IXEP1400 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.

Figure 1. IXEP1400 Functional Block Diagram



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