EPD (E-paper) Driver Portfolio

EPD

Electrophoretic Display technology

Electrophoretic display or E-paper is a display technology with low power consumption which is suitable for power concerning product with dedicated display changing, for example, electronic shelf label (ESL or electronic tag), smart card, smart meter, signage et al.

EPD Driver

To drive E-paper display, a high voltage driver IC is required. DM130xxx series provide the low power consumption, high compatibility, stability, reliability and durability to drive the display. In the business, a customization of EPD driver IC is present for a specified display.

DM130xxx series provide below features,

- Wide operating voltage: 2.2~5.5V
- Selectable output voltage: 15 or 30V
- External Hi-V driving capability: Maximum 40V
- Low RBOM cost: integrated charge pump circuit and on chip RC oscillator
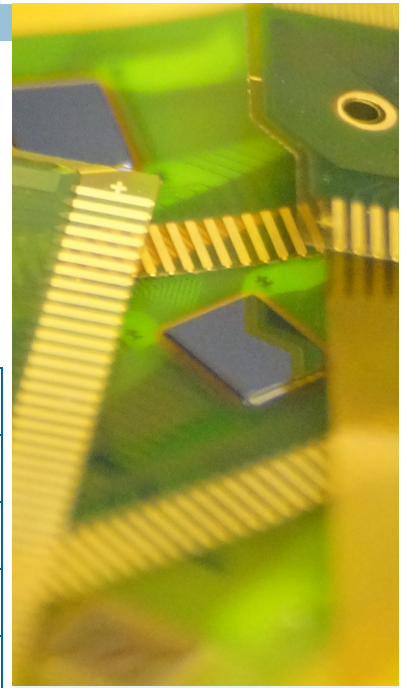- High scalability: up to 4 chips in cascade

Davicom Profile

Davicom is a network and communication IC design house founded at Aug. 16, 1996, now, providing 4 product lines:
- Network
- Video Decoder
- EPD Driver
- Modem

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Product Feature

	Segments	Common	Back ground	Control bus
DM130036[1]	36 (38)	1(+1)	1(+1)	I2C
DM130120	120	1	1	I2C, SPI
DM130160	160	1	1	I2C, SPI
DM130256	256	1	1	I2C, SPI

1: One of Common and Back ground pins can be programmed as an additional driving pin, therefore the total driven segments by DM130036 will be 38.

Product Packaging Diversity/Ordering Information[2]

Dice	Dice with gold bump	LQFP	LFBGA	COF	COF (2 layer PCB)	COF (punch)
DM130036	DM130036B	DM130036EP	DM130036GP	DM130036C	DM130036C2P	DM130036P
DM130120	DM130120B	DM130120EP	DM130120GP	DM130120C	DM130120C2P	DM130120P
DM130160	DM130160B	NRE	NRE	DM130160C	DM130160C2P	DM130160P
DM130256	DM130256B	NRE	NRE	DM130256C	DM130256C2P	DM130256P

2: COF is customizable product and there is customized PI PCB available, please contact us for more information.

Product Selection Guide

1. How many segments
2. Controller Interface
3. Products profile

Available Display Vendor

- E-ink
- SiPix
- Oed