



CyberDisplay® WQVGA LVS



FEATURES

- 428 x 240 x 3 dot active resolution (308,160 dots)
- 3.5 um (W) x 10.5 (H) um dot pitch
- Ultra-compact (0.20" diagonal)
- Active pixel area (4.49 mm x 2.52 mm)
- Parallel RGB analog input
- Simple interface for CMOS compatible driver chip
- Power-saving sleep mode
- Integrated low-voltage detect
- Horizontal and bidirectional vertical scanner circuits

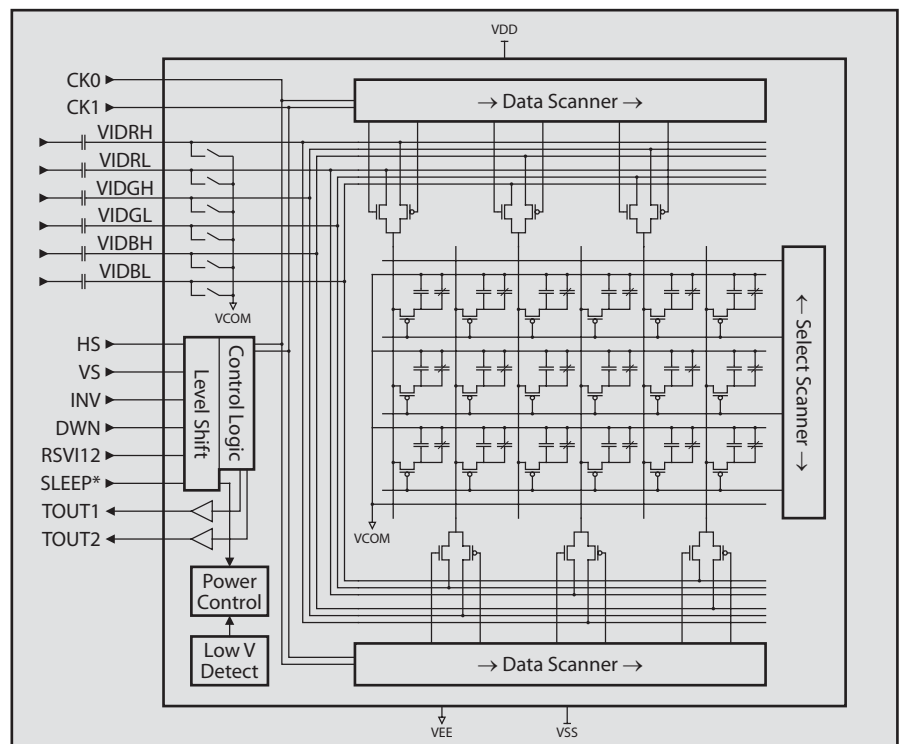
The CyberDisplay® WQVGA LVS is a color-filter active matrix liquid crystal display (AMLCD) with low-power, high-brightness and a resolution of 428x240. The CyberDisplay WQVGA LVS utilizes high-performance single crystal silicon transistors and is the smallest (0.20" diagonal) transmissive AMLCD for the resolution. The ultra-compact CyberDisplay WQVGA LVS is ideal for portable information snacking devices.

Functional Description

The CyberDisplay WQVGA LVS features Kopin's low-voltage architecture for low power consumption and compatibility with CMOS driver ICs. Horizontal and bidirectional vertical scanner circuits are integrated along with a sleep mode. The total dot active resolution is 428 x 3 x 240 (308,160 dots).

The CyberDisplay WQVGA LVS can be driven by the A230 controller IC.

BLOCK DIAGRAM



*Specifications subject to change without notice

Display Marketing
Tel: 508-870-5959 Fax: 508-870-0660

Hong Kong
Tel: 852-2607-4151 Fax: 852-2607-4156

Japan
Tel: 81-3-5352-3549 Fax: 81-3-5322-2929

cyberdisplay@kopin.com



CyberDisplay® WQVGA LVS

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with a spatial resolution
of 428 x 240 is ideal for
portable information
snacking devices.*

INTERFACE PIN LIST

PIN	SYMBOL	DESCRIPTION
1	VCOM	Pixel common electrode
2	VIDRH	High red video input
3	VIDGH	High green video input
4	VIDBH	High blue video input
5	VIDRL	Low red video input
6	VIDGL	Low green video input
7	VIDBL	Low blue video input
8	HS	Horizontal sync
9	VS	Vertical sync
10	INV	Inversion polarity
11	DWN	Vertical scan direction
12	RSVI12	Reserved input
13	SLEEP*	Sleep mode
14	CKO	Clock
15	CK1	Clock
16	VDD	Supply
17	VSS	Supply = -5V
18	TOUT1	Test output
19	TOUT2	Test output
20	VEE	Supply = 0V

*Signal is active low