

Large Display Driver

Wide Range of Solutions to Meet Your Needs



Solomon Systech provides a wide range of large display driver IC solutions, including source drivers, gate drivers and a GIP controller. They support applications including monitors, notebooks, large-size TVs, etc. in different resolutions of HD, FHD, QHD and UHD 4K/8K.

Applications: Monitors, TV, Notebooks



Features

Provide a wide range of channel counts to support resolutions from HD/FHD to UHD 4K/8K

- Source drivers from 684 to 1446 channels
- Gate drivers from 258 to 768 channels

Provide versatile driving solutions

- 6/8 bit source drivers of selection for different grey scale level requirements
- 13.5/18V driving voltage of source drivers for TN, VA and IPS LCD panel technologies
- Support Dot inversion/N-line inversion/Column inversion

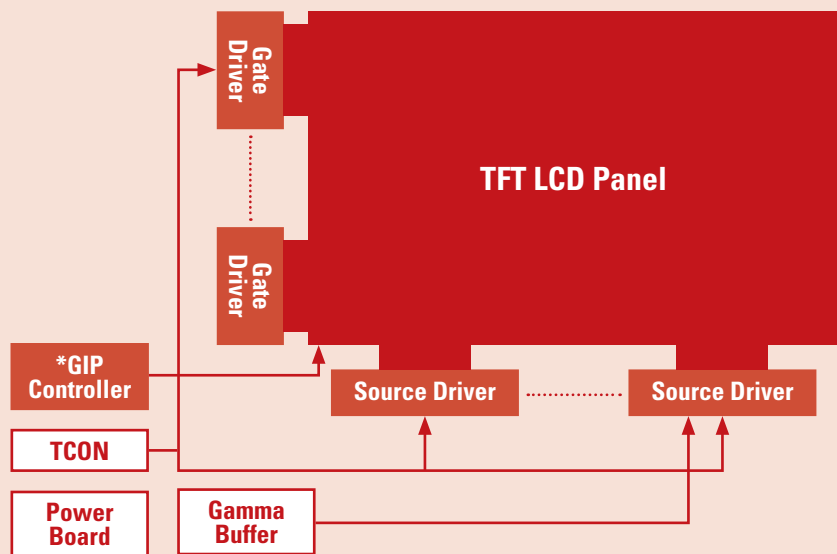
Support various data interfaces with high speed and low EMI noise

- mini-LVDS
- P2P interfaces: iSP and USIT

Enable Narrow Bezel Design

- GIP controller for GOA panels

Application Diagram



* Either Gate Driver or GIP Controller is used



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Large Display Driver

Selection Guide – Source Driver

	Part number	Data bit	Channel no.	VCC	VDDA	Interface	Package
Monitor	SSD3230	6bit	726 / 720 / 684	2.3 ~ 3.6V	6.5 ~ 14V	mini-LVDS	COF
	SSD3236	6bit	1026 / 1008 / 966 / 960 / 864 / 846 / 840 / 804	2.3 ~ 3.6V	7.0 ~ 13.5V	mini-LVDS	COF
TV	SSD3201	8bit	966 / 960 / 774 / 768 / 726 / 720 / 684	1.6 ~ 2.0V	13.5 ~ 18.5V	USIT 3.2Gbps	COF
	SSD3220	8bit	966 / 960 / 900 / 840	2.7 ~ 3.6V	12.0 ~ 18V	mini-LVDS	COF
	SSD3222	8bit	1026 / 966 / 960 / 900	2.3 ~ 3.6V	13.5 ~ 18V	mini-LVDS	COF
	SSD3253	8bit	1440/1368/1284/1152	2.3 ~ 3.6V	13.5 ~ 18V	mini-LVDS	COF
	SSD3241	8bit	726 / 720 / 690 / 684	2.3 ~ 3.6V	13.5 ~ 18V	mini-LVDS	COF
Notebook	SSD3211	8bit	1446 / 1440 / 1380 / 1284 / 1200 / 1152 / 1086 / 960	1.65 ~ 2.0V	6.5 ~ 13.5V	iSP 1.35Gbps	COG
	SSD3212	6bit	1446 / 1440 / 1368 / 1356 / 1284 / 1230 / 1206 / 1086	2.3 ~ 3.6V	6.5 ~ 13.5V	iSP 450Mbps	COG

Selection Guide – Gate Driver

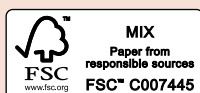
Part number	Channel no.	VCC	HV	Max. frequency	Package
SSD3290	272 / 258	2.3 ~ 3.6 V	42V	200 kHz	COF
SSD3291	360	2.3 ~ 3.6V	42V	200 kHz	COF
SSD3292	400 / 384 / 360 / 270	2.3 ~ 3.6V	42V	200 kHz	COF
SSD3294	544 / 540 / 512 / 432	2.3 ~ 3.6V	42V	200 kHz	COF
SSD3293	768 / 720 / 600 / 540	2.3 ~ 3.6V	42V	200 kHz	COF

Selection Guide – GIP Controller

Part number	Level shifter	HV (V)	Package
SSD5110	8ch	36V	24 / 32 pin QFN

Solomon Systech Limited

Solomon Systech Limited is a leading semiconductor company providing display IC products and system solutions that enable a wide range of display and touch applications for smartphones, tablets, TVs/monitors, notebooks and other smart devices, including wearables, healthcare devices, smart home devices, as well as industrial appliances, etc. Solomon Systech (International) Limited's shares have been listed on the main board of the Stock Exchange of Hong Kong Limited since April 8th, 2004 (stock code: 2878). More information about the Group, its products and services may be obtained at <http://www.solomon-systech.com/>.



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