

## 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

TV, Monitors, Notebooks



### Features

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

- Source drivers from 684 to 1368 channels, supporting a-Si and metal oxide TFT display
- 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 high speed 4Gbps/lane

#### Support various data interfaces with high speed and low EMI noise

- Mini-LVDS
- P2P interfaces, iSP, USIT, CSPI, CMPI, etc.

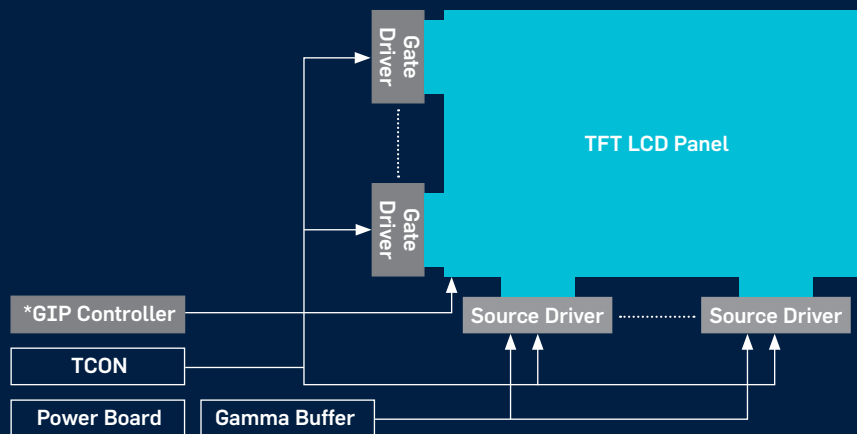
#### Enable Narrow Bezel Design

- GIP controller for GOA panels



\*All the images are for reference only.

# Application Diagram



\* Either Gate Driver or GIP Controller is used

## Selection Guide

### Source Driver

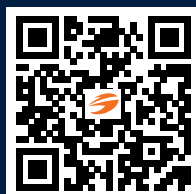
	Part number	Data bit	Channel no.	VCC	VDDA	Interface	Package
Monitor	SSD3230	6bit	726 / 720 / 684	2.3 ~ 3.6V	6.5 ~ 14V	mini-LVDS	COF
	SSD3236	6bit	1026 / 1008 / 966 / 960 / 864 / 846 / 840 / 804	2.3 ~ 3.6V	7.0 ~ 13.5V	mini-LVDS	COF
TV	SSD3201A	8bit	966 / 960 / 774 / 768 / 726 / 720 / 684	1.6 ~ 2.0V	13.5 ~ 18.5V	USIT 3.2Gbps	COF
	SSD3220	8bit	966 / 960 / 900 / 840	2.3 ~ 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	1368 / 1296 / 1212 / 1080	2.3 ~ 3.6V	13.5 ~ 18V	mini-LVDS	COF

### 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

### GIP Controller

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



✉ [sales@solomon-systech.com](mailto:sales@solomon-systech.com)

For regional sales contacts, please visit our website.

© Copyright 2020

