(Ch	E paper IC Specifications	SPEC NO	
Good Display	IL0371	REV NO	

Good Display Specifications

Prepared: AiMing Wei

Checked: YongCheng Jian

Approved: Boris Ren Issue Date: 2016.4.7



Dalian Good Display Co., Ltd.

No.17 Gonghua Street, Shahekou District, Dalian 116021 China Tel: +86-411-84619565 Fax: +86-411-84619585

> E-mail: info@good-display.com Website: <u>www.good-display.com</u>



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INTRODUCTION

The IL0371 is an all-in-one gate source driver with an integrated timing controller for ESL application. The source is capable of 3-bit outputs per pixel to support white/black/color. The timing controller provides control signals for the source driver and gate drivers.

The integrated DC-DC converter generates all the necessary source and gate output voltages for VDPS_LV/VDNS_LV (+/-3V~+/- 15V), VDPS/VDNS(+/- 15V) and VDPG/VDNG (+/- 17V ~ +/- 20V). The chip also includes an output buffer for the supply of the common electrode (VCOMAC or VCOMDC). The system is configurable through a 3-wire/4-wire (SPI) serial.

MAIN APPLICATIONS

• E-tag application

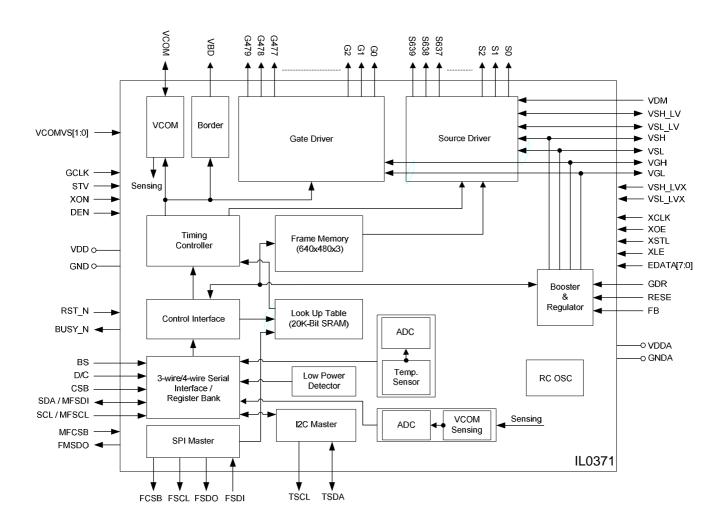
FEATURE HIGHLIGHTS

- · System-on-chip (SOC) for ESL, including:
- Timing controller support of several resolutions
- Preselect res (640x480, 600x450, 640x448, 600x448)
- Built in Frame memory maximum (640x480x3bit)
- Support LUT
- 640 outputs source driver with 3-bit white/black/red resolution

- Output dynamic range: VDNS, 0, VDPS, VDNS_LV, VDPS_LV
- Output deviation: 0.2V
- 640 channels outputs
- Left and Right shift capability
- 480 outputs gate driver:
 - 480 channels outputs
 - Up and Down shift capability
 - Output voltage VDNG+40
- 3-wire/4-wire (SPI) serial interface for system configuration
- DC-DC controller for generating the analog power supply
- Common electrode (VCOM AC) level
- External SPI flash/eeprom for WF
- Built-in temperature sensor
- Support I²C interface for external temperature sensor
- Support low power detection
- Digital supply voltage: 2.3~ 3.6V
- Support frame rate: 200 Hz (max)
- Support pure source & gate driver function
- COG Package



BLOCK DIAGRAM





PIN DESCRIPTION

Type: C: Capacitor pin, PWR: Power, PI: Power Input, PO: Power Output, PS: Power Setting, O: Output, PS: Power Setting, S: Shorted line

		ower input,	- 1 O. 1 Ower Output, 1 O. 1 Ower Octaing, O. Onorted and
Pin (Pad) Name	Pin Count	Туре	Description
			SERIAL INTERFACE
CSB	1	I, Type2	Serial communication chip select.
SDA / MFSDI*	1	I/O, Type5	Serial communication data input.
			It would bypass to MFSDI by R61H command.
SCL / MFSCL*	1	I, Type2	Serial communication clock input.
			It would bypass to MFSCL by R61H command.
D/C	1	I, Type2	Serial communication command/parameter input.
			L: command H: parameter
FMSDO*	1	O, Type1	Serial communication data output.
			It would bypass to FMSDO by R61H command.
MFCSB*	1	I, Type2	Serial communication chip select.
			It would bypass to MFCSB by R61H command.
FCSB	1	O, Type1	Serial communication chip select for External Flash/EEPROM.
FSCL	1	O, Type1	Serial communication clock input for External Flash/EEPROM.
FSDI	1	I, Type2	Serial communication clock input for External Flash/EEPROM.
FSDO	1	O, Type1	Serial communication clock output for External Flash/EEPROM.
			CONTROL INTERFACE
BS	1	I, Type2	Input interface setting. Select 3 wire/ 4 wire SPI interface
			L: 4-wire IF H: 3-wire IF (Default)
RST_N	1	1	Global reset pin. Low reset.
		(Pull-up), Type3	When RST_N become low, driver will reset. All register will reset to default
		71	value. All driver functions will be disabled. SD output and VCOM will remain previous condition. It may have two conditions: 0v or floating.
BUSY_N	1	O, Type1	This pin indicates the driver status.
			L: Driver is busy, data/VCOM is transforming.
			H: non-busy. Host side can send command/data to driver.
TSCL	2	0	I ² C clock for external temperature sensor.
TSDA	2	I/O	I ² C data for external temperature sensor.



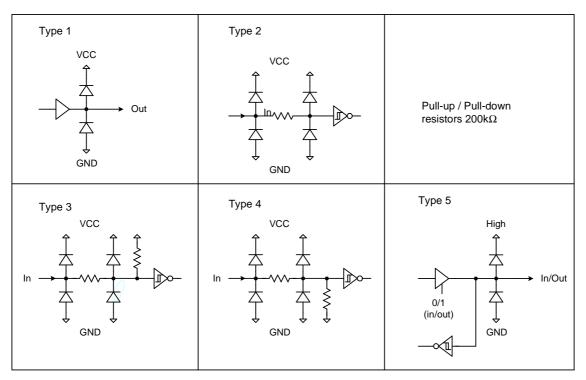
S[0639] G[0479]	640 480	0	Source / Gate Driver												
	480	0	S[0639] 640 O Source driver output signals.												
G[0479]			Source driver output signals.												
		0	Gate driver output signals.												
VBD	2	0	Border output pin. It will output black WF.												
VCOM	16	0	VCOM output. VCOM has four voltage states: 1. (VDPS+VCM_DC) V 2. (VCM_DC) V 3. (VDNS+VCM_DC) V 4. Floating												
			Power Circuit												
GDR	6	0	This pin is N-MOS gate control.												
RESE	2	PWR	Current sense input for control loop.												
FB	2	PWR	Keep open												
VGH	20	С	Positive gate voltage												
VGL	23	С	Negative gate voltage.												
VSH	10	С	Positive source voltage												
VSL	10	С	Negative source voltage.												
VSH_LV	10	С	Positive source voltage												
VSL_LV	10	С	Negative source voltage.												
<u>. </u>			DRIVER INTERFACE												
DEN	1	I	Pure driver mode pin. L: Disable pure driver mode. H: Enable pure driver mode.												
XCLK	1	I	Source driver clock input. Data inputs are captured on the rising edge of clock signal.												
XOE	1	1	Source driver outputs enabled when OE is logic "H", Outputs forced to GND when OE is logic "L". It is asynchronous to clock CLK.												
XSTL	1	I	Source driver data shift start pulse												
XLE	1	I	Source driver parallel latch enable, transparent when high. It is asynchronous to clock CLK												
EDATA[7:0]	8	I	Source driver 8-bit data												
GCLK	1	I	Gate driver shift clock pin. The shift register data are shifted synchronously with each rising edge of GCLK.												
STV	1	I	Gate driver start pulse												
XON	1	I	Driver XON pin												



Pin (Pad) Name	Pin Count	Туре	Description
			Power Supply
VDD		PWR	Digital voltage supply
VSS		PWR	Digital ground.
AVDD		PWR	Analog voltage supply
AVSS		PWR	Analog ground.
COMA		S	Internal link together.

Remark:

- (1) Pull-up / Pull-down resistors 200K Ω
- (2) I/O Pin Structure:





COMMAND TABLE

#	Command	W/R	C/D	D7	D6	D5	D4	D 3	D2	D1	D0	Registers	Default
	Communa	0	0	0	0	0	0	0	0	0	0	regiotoro	00h
1	Panel Setting (PSR)	0	1	#	#	#		#	#	#	#	RES[1], RES[0], LUT_EN, UD, SHL, SHD_N, RST_N	07h
		0	0	0	0	0	0	0	0	0	1		01h
	Davier Catting (DM/D)	0	1					#	#	#	#	EDATA_SEL, EDATA_SET, VGate_EN, VSource_EN	0Fh
2	Power Setting (PWR)	0	1						#	#	#	VGHL_LV[1:0]	01h
		0	1			#	#	#	#	#	#	VDPS_LV[5:0]	07h
	D OFF (DOF)	0	1			#	#	#	#	#	#	VDNS_LV[5:0]	07h
3	Power OFF (POF)	0	0	0	0	0	0	0	0	1	0		02h 03h
4	Power OFF Sequence Setting (PFS)	0	1			#	#					T_VDS_OFF[1:0]	00h
5	Power ON (PON)	0	0	0	0	0	0	0	1	0	0	1_vb0_011[1.0]	04h
		0	0	0	0	0	1	0	0	0	0		10h
6	Data Start Transmission 1 (DTM1)	0	1	#	#	#		#	#	#		KPixel1[2:0], KPixel2[2:0]	00h
0	(x-byte command)	0	1	:	:	:	:	:	:	:	:	:	:
		0	1	#	#	#		#	#	#		Kpixel[2M-1][2:0], Kpixel[2M][2:0]	00h
7	Data Stop (DSP)	0	0	0	0	0	1	0	0	0	1		11h
		1	₄ 1	#				-+				Data_flag	
8	Display Refresh (DRF)	0	0	0	0	0	1	0	0	1	0		12h
9	PLL control (PLL)	0	0	0	0	1	1 #	0	0 #	0	0 #	MC2:01 MC2:01	30h 3Ch
		0	0	0	1	#	0	# 0	0	#	0	M[2:0], N[2:0]	40h
10	Temperature Sensor Command	1	1	#	#	#	#	#	#	#	#	D[10:3] / TS[7:0]	00h
	(TSC)	1	1	#	#	#						D[2:0] / -	00h
	Temperature Sensor Calibration	0	0/	0	1	0	0	0	0	0	1	1 1	41h
11	(TSE)	0	1	#			#	#	#	#	#	TSE,TO[4:0]	00h
12	Vcom and data interval setting	0	0	0	1	0	1	0	0	0	0		50h
12	(CDI)	0	1	#	#	#	#	#	#	#	#	VBD[2:0], DDX, CDI[3:0]	17h
13	Lower Power Detection (LPD)	0	0	0	1	0	1	0	0	0	1		51h
	,	1	1								#	LPD	01h
14	TCON setting (TCON)	0	0	0	1 "	1 "	0	0	0	0	0	00010 01 00010 01	60h
		0	0	0	1	1	0	0	0	0	1	S2G[3:0], G2S[3:0]	22h 61h
		0	1						#	#	#		00h
15	TCON resolution (TRES)	0	1	#	#	#	#	#	#	#	#	HRES[9:0]	00h
		0	1						#	#	#		00h
		0	1	#	#	#	#	#	#	#	#	VRES[9:0]	00h
16	SDI floob control (DAM)	0	0	0	1	1	0	0	1	0	1		65h
16	SPI flash control (DAM)	0	1								#	DAM	00h
17	Revision (REV)	0	0	0	1	1	1	0	0	0	0		70 h
Ľ	TOTOGOT (TCE V)	0	1			#	#	#	#	#	#	MAN, SHRK, LUT_REV[3:0]	00h
10	Cat Status (FLC)	0	0	0	1	1	1	0	0	0	1	120 500 120 0110111 5 10 1	71h
18	Get Status (FLG)	1	1			#	#	#	#	#	#	I ² C_ERR, I ² C_BUSYN, DATA_FLAG, PON, POF, BUSY_N	
19	Auto Measurement Vcom (AMV)	0	0	1	0	0	0	0	0	0	0		80h



#	Command	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	Registers	Default
		0	1	-	#	#	#	#	#	#	#	VCM_EN, AMVT[1:0], AMVX, AMVS, AMV, AMVE	50h
20	Read Vcom Value(VV)	0	0	1	0	0	0	0	0	0	1		81h
20	Read vcom value(vv)	1	1		#	#	#	#	#	#	#	VV[6:0]	00h
21	VCM DC Sotting (VDCS)	0	0	1	0	0	0	0	0	1	0	U	82h
21	VCM_DC Setting (VDCS)		1		#	#	#	#	#	#	#	VDCS[6:0]	0Ch

Note: (1) All other register addresses are invalid or reserved by UltraChip, and should NOT be used.

- (2) Any bits shown here as 0 must be written with a 0. All unused bits should also be set to zero. Device malfunction may occur if this is not done.
- (3) Commands are processed on the 'stop' condition of the interface.
- (4) Registers marked 'W/R' can be read, but the contents are written when the SPI command completes so the contents can be read and altered. The user can subsequently write the register to restore the contents following an SPI read.
- (5) All commands are "USABLE" either when BUSY_N=0 or 1, except DSP (R11h) and DRF (R12h), which are only "USABLE" either when BUSY_N=1, ("USELESS" when BUSY_N=0).
 - * USABLE means that Host can send command/parameter to driver.
 - * USELESS means that Host cannot send command/parameter to driver.



COMMAND DESCRIPTION

W/R: 0: Write Cycle / 1: Read Cycle C/D: 0: Command / 1: Data D7-D0: -: Don't Care

(1) PANEL SETTING (PSR) (R00H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Setting the panel	0	0	0	0	0	0	0	0	0	0	00h
Setting the parier	0	1	RES1	RES0	LUT_EN	-	UD	SHL	SHD_N	RST_N	07h

RES[1:0]: Display Resolution setting (source x gate)

00b: 640x480 (Default)

01b: 600x450 10b: 640x448 11b: 600x448

LUT_EN: LUT selection

0: Using LUT from external Flash.

1: Using LUT from register.

UD: Gate Scan Direction

0: Scan down. First line to Last line: $Gn \rightarrow ... \rightarrow G1$ 1: Scan up. (Default) First line to Last line: $G1 \rightarrow ... \rightarrow Gn$

SHL: Source Shift Direction

0: Shift left. First data to Last data: $Sn \rightarrow \rightarrow S1$

1: Shift right. (Default) First data to Last data: $S1 \rightarrow \rightarrow Sn$

SHD_N: Booster Switch

0: DC-DC converter OFF.

1: DC-DC converter ON (Default)

When SHD_N become low, DC-DC will turn OFF. Register and SRAM data will keep until VDD OFF. SD output

and VCOM will remain previous condition. It may have two conditions: 0v or floating.

RST_N: Soft Reset

0: The controller is reset. Reset all registers to their default value.

1: Noormal operation (Default). Booster OFF, Register data are set to their default values, and SEG/BG/VCOM:

0

When RST_N become low, driver will reset. All register will reset to default value. Driver all function will disable. SD output and VCOM will base on previous condition. It may have two conditions: 0v or floating.



(2) POWER SETTING (PWR) (R01H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
	0	0	0	0	0	0	0 (0	0	1	01h
Onlandia vilata vanil/Eutavanil	0	1	-	-	-	-	EDATA_SEL	EDATA_SET	VGate_EN	VSource_EN	0Fh
Selecting Internal/External Power	0	1	-	-	-	-	-	-	VGHL_	LVL[1:0]	01h
1 5.1.5.	0	1	-	-			VDPS_	LV[5:0]			07h
	0	1	-	-			VDNS_	VDNS_LV[5:0]			

EDATA_SEL: EDATA selection for pure driver mode

0: When EDATA_SET=1, pixel bit =2`b11 output VDPS_L level

1: When EDATA_SET=1, pixel bit =2`b11 output VDNS_L level (default)

EDATA setting for pure driver mode EDATA_SET:

0: 3-bit data mode for pure driver

1: 2-bit data mode for pure driver (default)

VGate_EN: VGate power selection.

External gate power from VDPG and VDNG pin.
 Internal DCDC function for generate gate power. (default)

VSource_EN: VSource power selection.

0: External source power from VDPS and VDNS pin.

1: Internal DCDC function for generate source power. (default)

VGHL_LVL[1:0]: VGH / VGL Voltage Level selection.

VDPS_LV[5:0]: Internal VDHpower selection for B/W LUT. VDNS_LV[5:0]: Internal VDL power selection for B/W LUT.



(3) POWER OFF (POF) (R02H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Turning OFF the power	0	0	0	0	0	0	0	0	1	0	02h

After power off command, driver will power off based on the Power OFF Sequence, BUSY_N signal will become "0".

The Power OFF command will turn off DCDC, T-con, source driver, gate driver, VCOM, temperature sensor, but register and SRAM data will keep until VDD off.

SD output and VCOM will base on previous condition. It may have two conditions: 0v or floating.

(4) POWER OFF SEQUENCE SETTING (PFS) (R03H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Setting Power OFF sequence	0	0	0	0	0	0	0	0	1	1	03h
	0	1	-	_	T_VDS_	OFF[1:0]	-	-	-	_	00h

T_VDS_OFF[1:0]: Power OFF Sequence of VDH and VDL.

00b: 1 frame (Default) 01b: 2 frames 10b: 3 frames 11b: 4 frame

(5) POWER ON (PON) (REGISTER: R04H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Turning ON the power	0	0	0	0	0	0	0	1	0	0	04h

After the Power ON command, driver will power on based on the Power ON Sequence.

After power on command and all power sequence are ready, then BUSY_N signal will become "1".

(6) DATA START TRANSMISSION 1 (DTM1) (R10H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
	0	0	0	0	0	1	0	0	0	0	10h
	0	1	KPixel12	KPixel11	KPixel10	Dummy	KPixel22	Kpixel21	Kpixel20	Dummy	00h
Starting data transmission	0	1	:	:	:	:	:	:	:	:	00h
	0	1	Kpixel (2M-1)2	Kpixel (2M-1)1	Kpixel (2M-1)0	Dummy	Kpixel (2M)2	Kpixel (2M)1	Kpixel (2M)0	Dummy	00h

This command indicates that user starts to transmit data. Then write to SRAM. While complete data transmission, user must send a DataStop command (R11H). Then the chip will start to send data/VCOM for panel.

Kpixel[1~2M][2:0]:

KPixel[2:0]	Look Up Table
000	LUTB
001	LUTG1
010	LUTG2
011	LUTW
100	LUTR0
101	LUTR1
110	LUTR2
111	LUTR3



(7) DATA STOP (DSP) (R11H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Stopping data transmission	0	0	0	0	0	1	0	0	0	1	11h
Stopping data transmission	1	1	data_flag	-	-	-	-	-	-	-	

To stop data transmission, this command must be issued to check the data_flag.

Data_flag: Data flag of receiving user data.

0: Driver didn't receive all the data.

1: Driver has already received all the one-frame data (DTM1 and DTM2).

After "Data Start" (10h) or "Data Stop" (11h) commands, BUSY_N signal will become "0".

This command only active when BUSY_N = "1".

(8) DISPLAY REFRESH (DRF) (R12H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Refreshing the display	0	0	0	0	0	1	0	0	1	0	12h

After this command is issued, driver will refresh display (data/VCOM) according to SRAM data and LUT.

After Display Refresh command, BUSY_N signal will become "0".

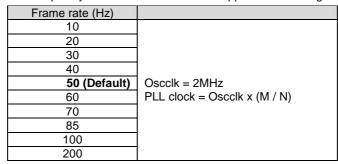
This command only active when BUSY_N = "1".

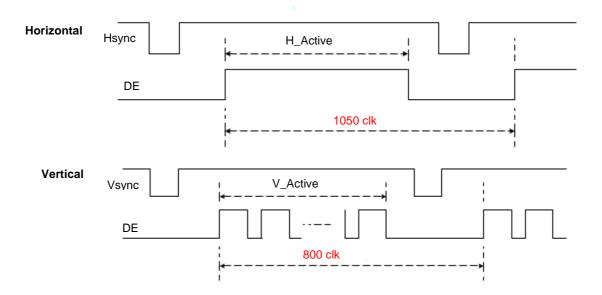


(19) PLL CONTROL (PLL) (R30H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Controlling PLL	0	0	0	0	1	1	0	0	0	0	30h
Controlling 1 EE	0	1	-	-		M[2:0]			N[2:0]		3Ch

The command controls the PLL clock frequency. The PLL structure must support the following frame rates:







(20) TEMPERATURE SENSOR CALIBRATION (TSC) (R40H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
	0	0	0	1	0	0	0	0	0	0	40h
Sensing Temperature	1	1	D10	D9/TS6	D8/TS5	D7/TS4	D6 / TS3	D5 / TS2	D4 / TS1	D3 / TS0	00h
	1	1	D2	D1	D0	-	- (/	-	-	-	00h

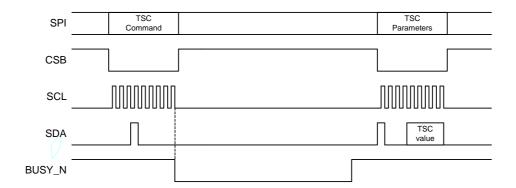
This command reads the temperature sensed by the temperature sensor.

TS[7:0]: When TSE (R41h) is set to 0, this command reads internal temperature sensor value.

D[10:0]: When TSE (R41h) is set to 1, this command reads external LM75 temperature sensor value.

Bit 7~0	Temperature (°C)
0000 0000b	0
0000 0001b	0.5
0000 0010b	1
:	:
0101 1010b	45
:	:
0110 0100b	50
:	:
1100 1110b	-25
	:
1111 1110b	-1
1111 1111b	-0.5
1111 1111D	-0.5

BUSY_N become low after TSC command. When BUSYN become high, Parameter can be read.





(21) TEMPERATURE SENSOR CALIBRATION (TSE) (R41H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Calibrate Temperature Sensor	0	0	0	1	0	0	0	0	0	1	41h
Cambrate Temperature Gensor	0	1	TSE	-	-			TO[4:0]			00h

This command selects Internal or External temperature sensor.

TSE: Internal temperature sensor switch

0: Enable (default) 1: Disable; using external sensor.

TO[4:0]: Temperature offset.

TO[4]: sign bit 0b: + 1b: -

TO[3:0]: offset value



(22) VCOM AND DATA INTERVAL SETTING (CDI) (R50H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Set Interval between	0	0	0	1	0	1	0	0	0	0	50h
Vcom and Data	0	1		VBD[2:0]		DDX		CDI	[3:0]		17h

This command indicates the interval of Vcom and data output. When setting the vertical back porch, the total blanking will be kept (20 Hsync).

VBD[2:0]: Vborder control, border output selection

VBD	Border output voltage
000 b	Border floating (Default)
001	Border output LUTB voltage
010	Border output LUTG1 voltage
011	Border output LUTG2 voltage
100	Border output LUTW voltage
101	Border output LUTR1 voltage
110	Border output LUTR2 voltage
111	Border output LUTR3 voltage

DDX[1:0]: Data polality.

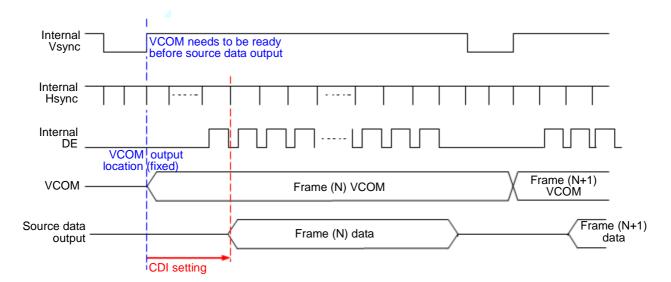
DDX[1] for RED data, DDX[0] for BW data in the B/W/Red mode.

DDX[0] for B/W mode.

CDI[3:0]: Vcom and data interval

CDI[3:0]	Vcom and Data Interval
0000 b	17 hsync
0001	16
0010	15
0011	14
0100	13
0101	12
0110	11
0111	10 (Default)

CDI[3:0]	Vcom and Data Interval
1000	9
1001	8
1010	7
1011	6
1100	5
1101	4
1110	3
1111	2





(23) Low Power Detection (LPD) (R51H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Detect Low Power	0	0	0	1	0	1	0	0	0	1	51h
Detect Low Fower	1	1	-	-	-	-	-	-	-	LPD	01h

This command indicates the input power condition. Host can read this flag to learn the battery condition.

LPD: Internal temperature sensor switch

0: Low power input (VDD<2.5V)

1: Normal status (default)



(24) TCON SETTING (TCON) (R60H)

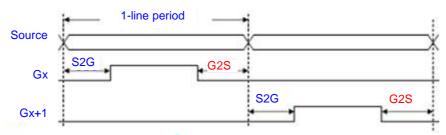
Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Sensing Temperature	0	0	0	1	1	0	0	0	0	0	60h
Sensing remperature	0	1		S2G	[3:0]			G2S	[3:0]		22h

This command defines non-overlap period of Gate and Source.

S2G[3:0] or G2S[3:0]: Source to Gate / Gate to Source Non-overlap period

S2G[3:0] or G2S[3:0]	Period
0000 b	4
0001	8
0010	12 (Default)
0011	16
0100	20
0101	24
0110	28
0111	32
1000	36
1001	40
1010	44
1011	48
1100	52
1101	56
1110	60
1111	64

Period = 660 nS.



(25) RESOLUTION SETTING (TRES) (R61H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
	0	0	0	1	1	0	0	0	0	1	61h
	0	1				HRES	S[7:0]				00h
Set Display Resolution	0	1	-	-	-	-	-	-	HRE	S[9:8]	00h
	0	1	VRES[7:0]								00h
	0	1	$\overline{\Box}$	-	-	-	-	-	-	VRES[8]	00h

This command defines alternative resolution and this setting is of higher priority than the RES[1:0] in R00H (PSR).

HRES[9:0]: Horizontal Display ResolutionVRES[8:0]: Vertical Display Resolution

Resolution setting (R61H) has higher priority than RES[1:0] (R00H). Resolution should be even number.



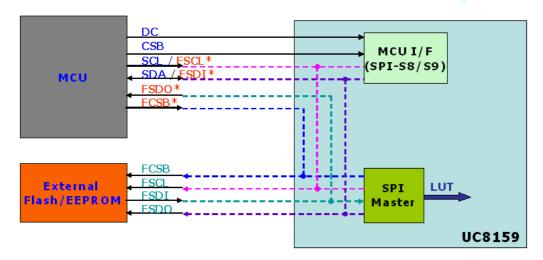
(26) SPI FLASH CONTROL (DAM) (R65H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Sensing Temperature	0	0	0	1	1	0	0	1	0	1	65h
Sensing Temperature	0	1	-	-	•	-	-	-	-	DAM	22h

This command defines MCU host direct access external memory mode.

DAM: 0: Disable (Default)

1: Enable. By pass FSCL*, FSDI*, FSDO*, AND FCSB* to external flash.





(27) REVISION (REV) (R70H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Chip Revision	0	0	0	1	1	1	0	0	0	0	70h
Chip Revision	1	1	-	-	MAN	SHRK		REV	[3:0]		00h

The REV is read from OTP address = 0x001.

MAN:

SHRK: Shrink revision or not. 0: Non-shrink revision (default) 1: Shrink revision

REV[3:0]: Chip Revision.

(28) GET STATUS (FLG) (R71H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
	0	0	0	1	1/)	1	0	0	0	1	71h
Read Flags	1	1	-	-	I2C_ ERR	I2C_ BUSYN	Data_ flag	PON	POF	BUSY_N	

This command reads the IC status.

I2C_ERR: I²C master error status

I2C_BUSYN: I²C master busy status (low active)

Data_flag: Driver has already received all the one frame data

PON: Power ON status
POF: Power OFF status

BUSY_N: Driver busy status (low active)

(29) AUTO MEASURE VCOM (AMV) (R80H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Automatically measure Vcom	0	0	1	0	0	0	0	0	0	0	80h
Automatically measure Vcom	0	1	-	VCM_EN	AMV	T[1:0]	AMVX	AMVS	AMV	AMVE	50h

This command reads the IC status.

VCM_EN: VCOM output Enable

0: VCOM floating. 1: VCOM output. (default)

AMVT[1:0]: Auto Measure Vcom Time

00b: 3s **01b: 5s (default)**

10b: 8s 11b: 10s

AMVX: Auto Measure VCOM without XON function

0: Measure VCOM without XON function. (Gate scanning) (default)

1: Measure VCOM without XON function. (All Gate ON)

AMVS: Source output of AMV

0: Set Source output to 0V during Auto Measure VCOM period. (default)

1: Set Source output to 3V (or VDPS_L) during Auto Measure VCOM period.

AMV: Analog signal

0: Get Vcom value with the VV command (R81h) (default)

1: Get Vcom value in analog signal.

AMVE: Auto Measure Vcom Enable (/Disable)

0: Disabled 1: Enabled



(30) VCOM VALUE (VV) (R81H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Automatically measure Vcom	0	0	1	0	0	0	0	0	0	1	81h
Automatically measure vcom	1	1	-				VV[6:0]				00h

This command gets the Vcom value.

VV[6:0]: Vcom Value Output

VV[6:0]	Vcom value
000 0000b	(Reserved)
000 0001b	(Reserved)
000 0010b	-0.10 V
000 0011b	-0.15 V
000 0100b	-0.20 V
:	:
101 0000b	-4.0 V
(others)	-4.0 V
	•

(31) VCM_DC SETTING (VDCS) (R82H)

Action	W/R	C/D	D7	D6	D5	D4	D3	D2	D1	D0	
Set VCM DC	0	0	1	0	0	0	0	0	1	0	82h
Set VOIVI_DC	0	1	-				VDCS[6:0]				0Ch

This command sets VCOM_DC value.

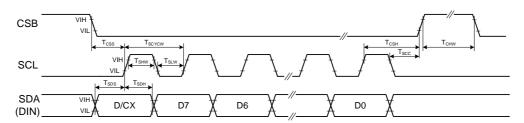
VDCS[6:0]: VCOM_DC Setting

VDCS[6:0]	Vcom_DC value
000 0000b	(Reserved)
000 0001b	(Reserved)
000 0010b	-0.2 V
000 0011b	-0.3 V
000 0100b	-0.4 V
:	:
101 0000b	-4.0 V
(others)	-4.0 V

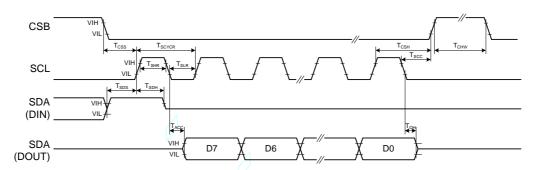


HOST INTERFACES

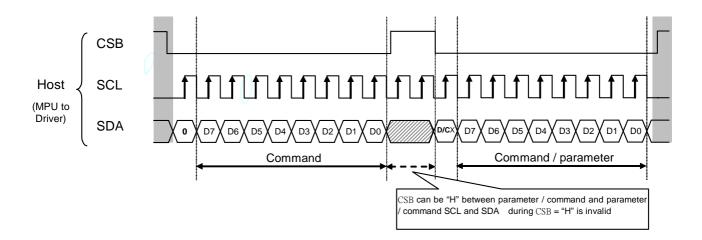
3-WIRE SPI



3 pin serial interface characteristics (write mode)

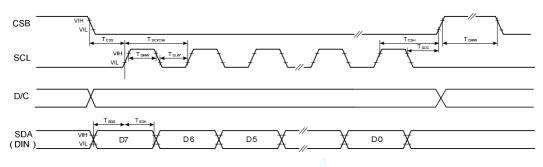


3 pin serial interface characteristics (read mode)

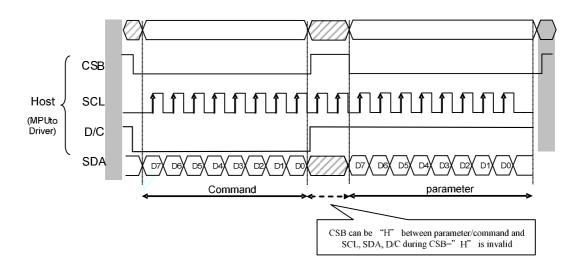




4-WIRE SPI



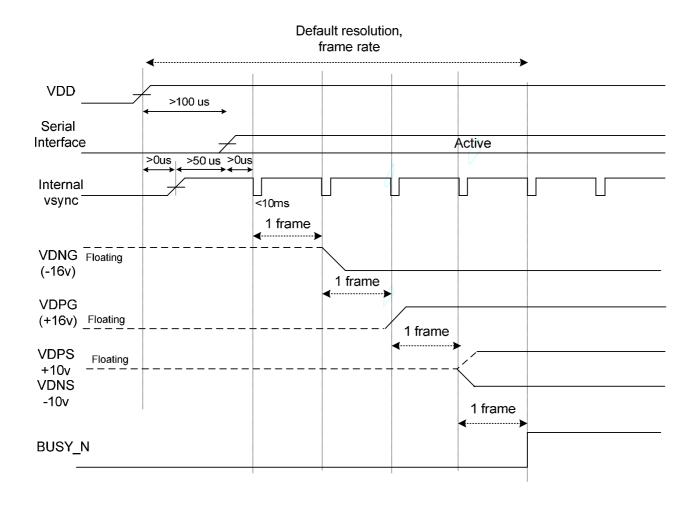
4 pin serial interface characteristics





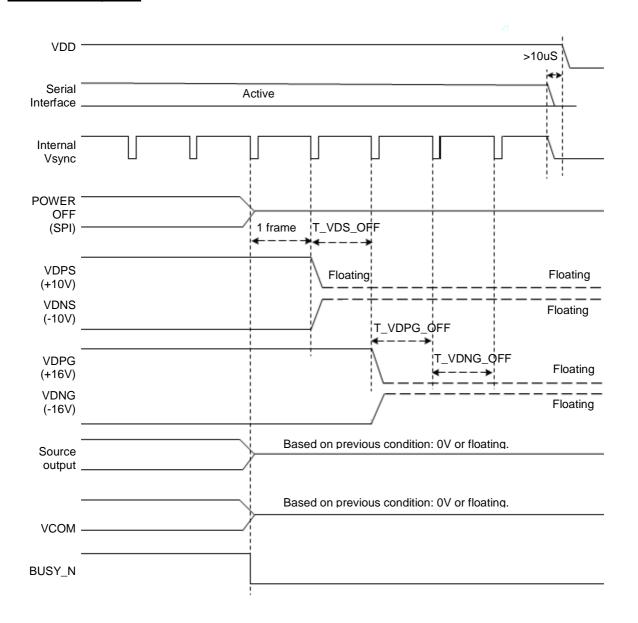
POWER MANAGEMENT

Power ON Sequence





Power OFF Sequence





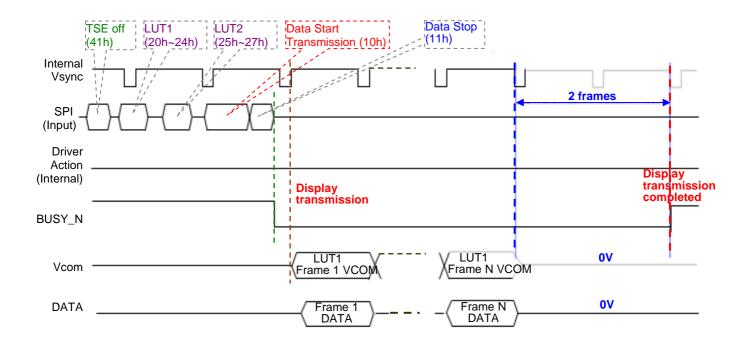
LUT (Lookup Table) Definition

The LUT contains 10 temperature segments for application. And there are waveform, VCOM, XON, VDPS_L, VDNS_L, etc. The total size of LUT is 25031 bytes.

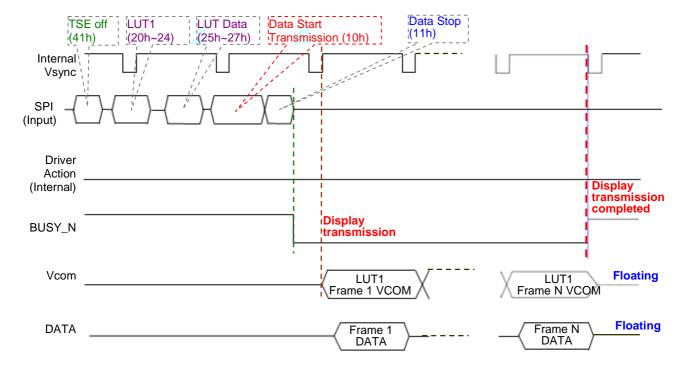


Data Transmission Waveform

Example 1: LUT all states (10 states) complete or phase number=0, the driver will send 2 frames VCOM and data to 0 V.



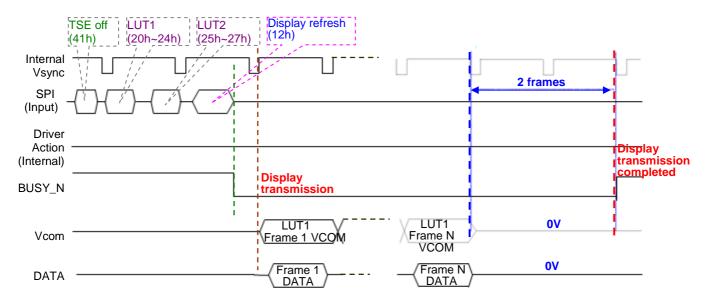
Example 2: While level selection in LUT is "11", the driver will float VCOM and data.



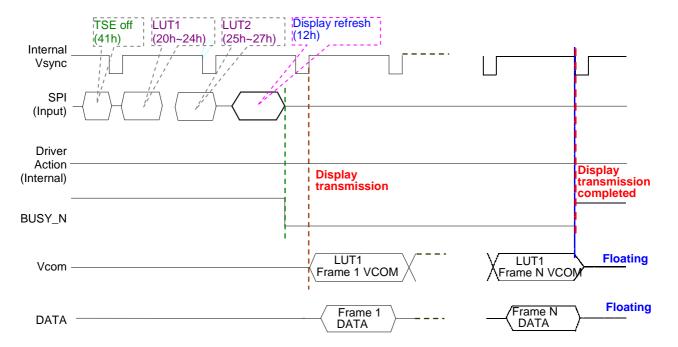


Display Refresh Waveform

Example 1: LUT all states (10 states) complete or phase number=0, the driver will send 2 frames VCOM and data to 0 V.

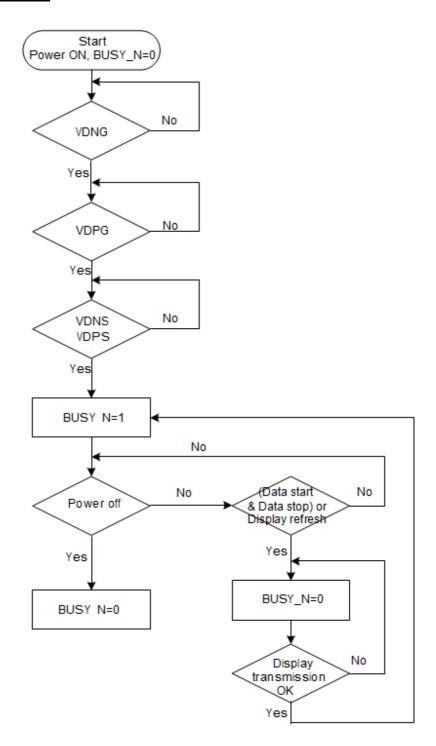


Example2: While level selection in LUT is "11", the driver will float VCOM and data.





BUSY N Signal Flow Chart



BUSY_N Signal Flow Chart



ABSOLUTE MAXIMUM RATINGS

Signal	Item	Min	Max.	Unit						
VDD, VIO, VDD1, VPP	Logic Supply voltage	- 0.3 +6.0		V						
Vı	Digital input range	-0.3 VDDIO+0.3		V						
VDPG-VDNG	Supply range	VDNG-0.3	VDPG+0.3	V						
Source	Source									
VDPS	Analog supply voltage – positive	+	V							
VDNS	Analog supply voltage nagetive	-1	V							
Gate										
VDPG	Analog supply voltage – positive	-0.3	VDNG+42	V						
VDNG	Analog supply voltage nagetive	VDPG-42	0.3	V						
IVDPG	Input rush current for VDH	(TBD)	(TBD)	mA						
Ivdng	Input rush current for VDL	(TBD)	(TBD)	mA						
Тѕтс	Storage temperature range	-55	+125	°C						

Warning:

If ICs are stressed beyond those listed above "absolute maximum ratings", they may be permanently destroyed. These are stress ratings only, and functional operation of the device at these or any other condition beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute maximum rated conditions for extended periods may affect device reliability.



DC CHARACTERISTICS

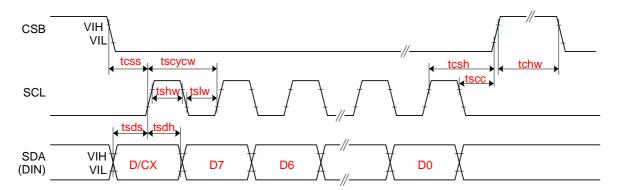
DIGITAL DC CHARACTERISTICS								
Symbol	Parameter	Conditions	MIN.	TYP.	MAX.	Uni		
Vio	IO supply voltage		2.3	3.3	3.6	V		
VDD	Supply voltage		2.3	3.3	3.6	V		
VDD1	DCDC driver supply voltage	DRVU, DRVD	2.3	3.3	3.6	V		
VIL	LOW Level input voltage	Digital input pins	GND		0.3xVdd	V		
VIH	HIGH Level input voltage	Digital input pins	0.7xVio		Vio	V		
Voн	HIGH Level output voltage	Digital input pins, IoH=400∪A	VIO-0.4			V		
VOHD	HIGH Level output voltage	Digital input pins, IoH=400uA, DRVD, DRVU	VDD1-0.4			V		
Vol	LOW Level Output voltage	Digital input pins, lo∟=-400∪A	GND		GND+0.4	V		
lin	Input leakage current	Digital input pins except pull-up, pull-down pin	0		±1.0	uA		
Rın	Pull-up/down impedance			200		KΩ		
ISTVDD	Digital stand-by current	all stopped (power off mode)		0	0.1	u∨		
IVDD	Digital operating current			0.5	2.0	m∖		
I	IO stand-by current	all stopped (power off mode)		0.4	1.0	u۷		
Ivio	IO operating current	No load			0.2	m/		
ISTVDD1	DCDC stand-by current	all stopped (power off mode)		0	0.01	uA		
		fdcdc=250kHz, No load			0.05			
IVDD1	DCDC operating current	fdcdc=250kHz, External cap: 415pF, NMOS=340pF		0.5	1.0	m/		
Тор	Operating temperature		-30		85	°C		



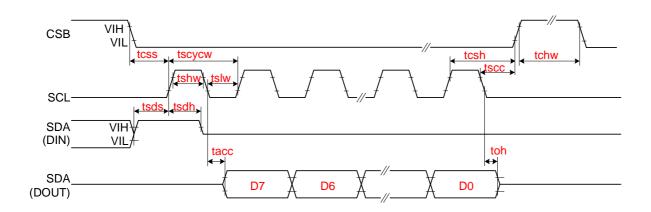
Symbol	Parameter	Conditions	MIN.	TYP.	MAX.	Uni
VDPS	Supply Voltage	For source driver/VCOM		15		V
dVDPS	Supply voltage dev		-300	0	+300	m۱
VDNS	Supply Voltage	For source driver/VCOM		-15		V
dVDNS	Supply voltage dev		-300	0	+300	m۱
ldd	Analog Operating Current	No load,		TBD		m/
Vvd	Voltage Deviation of Outputs			±16	±35	m۱
Vdr	Dynamic Range of Output		0.1		VDPS-0.1	V
VDPG- VDPG	Voltage Range of VGH - VGL		12		42	V
VDNG	VGL voltage Range	For gate driver	-20		-18	V
dVDNG	VGL Supply voltage dev		-400	0	+400	m\
VDPG	VGH voltage Range	For gate driver	20		22	V
dVDPG	VGH Supply voltage dev		-400	0	+400	m\
IstVDPG*	Positve HV Stand-by Current (power off mode)	Include VDH power With load	-	0	0.01	μA
IVDPG*		Include VDH power With load all SD=L VCOM external resistor divider not included	-	0.7	1.1	m <i>l</i>
	Positve HV Operating Current	Include VDH power With load all SD=H VCOM external resistor divider not included	-	0.8	1.2	m/
IstVDNG*	Negative HV Stand-by Current (power off mode)	Include VDPNS power With load	-	0	0.01	μA
IVDNG*	Negative HV Operating Current	Include VDL power With load all SD=L	-	0.8	1.2	m/
IVDING	Negative ITV Operating Current	Include VDL power With load all SD=H	-	0.9	1.3	m
IstVINT1*	VINT1 Stand-by Current (power off mode)		-	0	0.01	μA
IVINT1*	VINT1 Operating Current		-		0.3	m/



AC CHARACTERISTICS



3-wire Serial Interface - Write

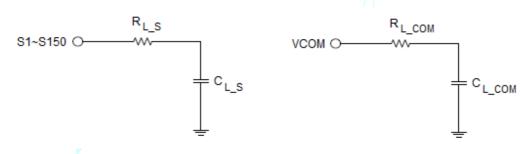


3-wire Serial Interface - Read

SYMBOL	SIGNAL			MIN.	TYP.	MAX.	UNIT	
	SERIAL COMMUNICATION							
tCSS		Chip select setup time		60			ns	
tCSH	CSB	Chip select hold time		65			ns	
tSCC	COB	Chip select setup time		20			ns	
tCHW		Chip select setup time		40			ns	
tSCYCW	- SCL	Serial clock cycle (Write)		100			ns	
tSHW		SCL "H" pulse width (Write)		35			ns	
tSLW		SCL "L" pulse width (Write)		35			ns	
tSCYCR		Serial clock cycle (Read)		150			ns	
tSHR		SCL "H" pulse width (Read)		60			ns	
tSLR		SCL "L" pulse width (Read)		60			ns	
tSDS	SDA (DIN) (DOUT)	Data setup time		30			ns	
tSDH		Data hold time		30			ns	
tACC		Access time		10			ns	
tOH		Output disable time		15			ns	



SYMBOL	SIGNAL			MIN.	TYP.	MAX.	UNIT	
Driver								
trS		Source driver rise time	99% final value		5		uS	
tFS		Source driver fall time			5		uS	
trG		Gate driver rise time	99% final value		5		uS	
tFG		Gate driver fall time			5		uS	
trCOM		VCOM rise time	99% final value		1		mS	
tFCOM		VCOM fall time			1		mS	
		RC Loai	DING					
Rs_f		Source driver output loading (Fanout)			1962		Ω	
Cs_f	Source driver				5.7		pf	
Rs_a		Source driver output loading (Active			1962		Ω	
Cs_a		area)			145.2		pf	
Rs_F		Gate driver output loading (Fan-out)			7533		Ω	
Cs_f	Gate driver	F Gate		Based on 6" panel		25.4		pf
Rs_a		Gate driver output loading (Active	Based on o panel		2601		Ω	
Cs_A					375.4		pf	
Rc_f	VCOM	VCOM output loading (Fan-out)			5		Ω	
Cc_f					0.6		pf	
Rc_a	V COIVI	VCOM output loading (Active area)			83		Ω	
Cc_a		VCOM output loading (Active area)			30888		pf	



RC Loading



PHYSICAL DIMENSIONS

Die Size: $(17630 \ \mu M \ \pm \ 40 \mu M) \ x \ (1680 \ \mu M \ \pm \ 40 \mu M)$

Die Thickness: $300 \mu M \pm 20 \mu M$

Die TTV: $(D_{MAX} - D_{MIN})$ within die $\leq 2\mu M$

Bump Height: $12 \mu M \pm 3 \mu M$

 $(H_{MAX}-H_{MIN})$ within die $\leqslant 2\mu M$

Hardness: 65 Hv ± 15Hv

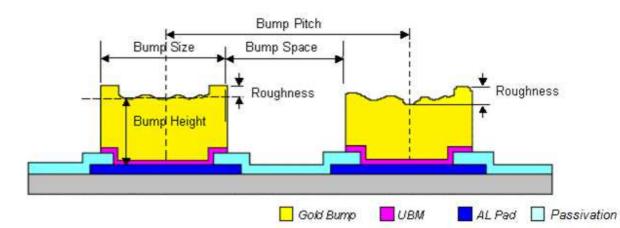
Bump Size: $12 \mu M \times 100 \mu M \pm 2 \mu M$

Bump Area: $1200 \mu M^2$ Bump Pitch: $18 \mu M$

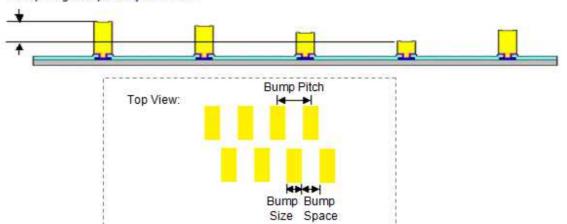
Bump Gap: $15 \mu M \pm 3 \mu M$

Shear: $\geq 5g/Mil^2$

Coordinate origin: Chip center
Pad reference: Pad center



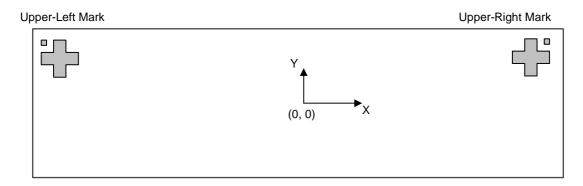




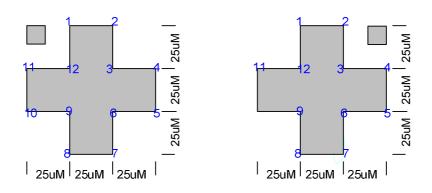


ALIGNMENT MARK INFORMATION

Location:



Shapes and Points:



Point Coordinates:

	Upper-L	eft Mark	Upper-Ri	ght Mark
Point	X	Y	Х	Υ
Center	-8700	725	8700	725
1	-8712.5	762.5	8687.5	762.5
2	-8687.5	762.5	8712.5	762.5
3	-8687.5	737.5	8712.5	737.5
4	-8662.5	737.5	8737.5	737.5
5	-8662.5	712.5	8737.5	712.5
6	-8687.5	712.5	8712.5	712.5
7	-8687.5	687.5	8712.5	687.5
8	-8712.5	687.5	8687.5	687.5
9	-8712.5	712.5	8687.5	712.5
10	-8737.5	712.5	8662.5	712.5
11	-8737.5	737.5	8662.5	737.5
12	-8712.5	737.5	8687.5	737.5



PAD COORDINATES

No. Name X Y W H 1 DUMMY -8610 -755 40 50 2 VCOM -8450 -755 40 50 3 VCOM -8430 -755 40 50 4 VCOM -8430 -755 40 50 5 VCOM -8310 -755 40 50 6 VCOM -8250 -755 40 50 7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 <	40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755 -755 -755 -755 -755 -755	-8610 -8550 -8490 -8430 -8370 -8310	DUMMY VCOM VCOM VCOM	1 2 3
2 VCOM -8550 -755 40 50 3 VCOM -8490 -755 40 50 4 VCOM -8430 -755 40 50 5 VCOM -8370 -755 40 50 6 VCOM -8250 -755 40 50 7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7830 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755 -755 -755 -755 -755 -755	-8550 -8490 -8430 -8370 -8310	VCOM VCOM VCOM	2
3 VCOM -8490 -755 40 50 4 VCOM -8430 -755 40 50 5 VCOM -8370 -755 40 50 6 VCOM -8310 -755 40 50 7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7890 -755 40 50 14 VGL -77650 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755 -755 -755 -755 -755	-8490 -8430 -8370 -8310	VCOM VCOM	
4 VCOM -8430 -755 40 50 5 VCOM -8370 -755 40 50 6 VCOM -8310 -755 40 50 7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7890 -755 40 50 14 VGL -7830 -755 40 50 15 VGL -7770 -755 40 50 16 VGL -7750 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755 -755 -755 -755	-8370 -8310	VCOM	
5 VCOM -8370 -755 40 50 6 VCOM -8310 -755 40 50 7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7890 -755 40 50 14 VGL -7830 -755 40 50 15 VGL -7710 -755 40 50 16 VGL -7750 -755 40 50 18 VGL -7530 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755 -755 -755	-8370 -8310	\/COM	4
6 VCOM -8310 -755 40 50 7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7890 -755 40 50 14 VGL -7830 -755 40 50 15 VGL -7770 -755 40 50 16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755 -755	-8310		5
7 VCOM -8250 -755 40 50 8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7890 -755 40 50 14 VGL -7830 -755 40 50 15 VGL -7770 -755 40 50 16 VGL -7710 -755 40 50 16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7470 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755			
8 VCOM -8190 -755 40 50 9 VCOM -8130 -755 40 50 10 PATH1 -8070 -755 40 50 11 VDM -8010 -755 40 50 12 VDM -7950 -755 40 50 13 VGL -7890 -755 40 50 14 VGL -7830 -755 40 50 15 VGL -7770 -755 40 50 16 VGL -7710 -755 40 50 16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7470 -755 40 50 20 VGL -7470 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50 40 50	-755 -755	-0230		
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13 VGL -7890 -755 40 50 14 VGL -7830 -755 40 50 15 VGL -7770 -755 40 50 16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7530 -755 40 50 20 VGL -7470 -755 40 50 21 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7290 -755 40 50 25 VGL -7110 -755 40 50	40 50	-755	-8010	VDM	11
14 VGL -7830 -755 40 50 15 VGL -7770 -755 40 50 16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7530 -755 40 50 20 VGL -7470 -755 40 50 21 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7110 -755 40 50 26 VGL -7110 -755 40 50		-755	-7950	VDM	12
15 VGL -7770 -755 40 50 16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7530 -755 40 50 20 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7110 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50	40 50	-755	-7890	VGL	13
16 VGL -7710 -755 40 50 17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7530 -755 40 50 20 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 30 VSL -6870 -755 40 50		-755	-7830		14
17 VGL -7650 -755 40 50 18 VGL -7590 -755 40 50 19 VGL -7530 -755 40 50 20 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50		-755	-7770	VGL	
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19 VGL -7530 -755 40 50 20 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50	40 50	-755	-7650	VGL	17
20 VGL -7470 -755 40 50 21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 34 VSL -6690 -755 40 50	40 50		-7590	VGL	18
21 VGL -7410 -755 40 50 22 VGL -7350 -755 40 50 23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50	40 50	-755	-7530	VGL	19
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23 VGL -7290 -755 40 50 24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50	40 50	-755		VGL	
24 VGL -7230 -755 40 50 25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50	40 50	-755			
25 VGL -7170 -755 40 50 26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50	40 50				23
26 VGL -7110 -755 40 50 27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50				_	
27 VGL -7050 -755 40 50 28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50					
28 VGL -6990 -755 40 50 29 GNDA -6930 -755 40 50 30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50					
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30 VSL -6870 -755 40 50 31 VSL -6810 -755 40 50 32 VSL -6750 -755 40 50 33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50					
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33 VSL -6690 -755 40 50 34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50					
34 VSL -6630 -755 40 50 35 VSL -6570 -755 40 50					
35 VSL -6570 -755 40 50		1 /			
			_		
37 VSL -6450 -755 40 50 38 VSL -6390 -755 40 50					
39 VSL -6330 -755 40 50					
40 GNDA -6270 -755 40 50					
40 GNDA -6270 -755 40 50 42 VSL LV -6210 -755 40 50					
41 VSL_LV -6150 -755 40 50					
43 VSL_LV -6090 -755 40 50					
44 VSL_LV -6030 -755 40 50					
45 VSL_LV -5970 -755 40 50					
46 VSL_LV -5910 -755 40 50					
47 VSL_LV -5850 -755 40 50					
48 VSL_LV -5790 -755 40 50					
49 VSL_LV -5730 -755 40 50					
50 VSL_LV -5670 -755 40 50				VSL_LV	50
51 GNDA -5610 -755 40 50					
52 VSL_LVX -5550 -755 40 50	40 50				
53 VSL_LVX -5490 -755 40 50				VSL_LVX	53
54 VSL_LVX -5430 -755 40 50	40 50	-133	-5430		54
55 VSL_LVX -5370 -755 40 50	40 50 40 50				55
56 VSL_LVX -5310 -755 40 50	40 50 40 50 40 50	-755	-5370	VSL_LVX	55
57 VSL_LVX -5250 -755 40 50	40 50 40 50 40 50 40 50	-755 -755		_	
58 VSL_LVX -5190 -755 40 50	40 50 40 50 40 50 40 50 40 50 40 50	-755 -755 -755	-5310	VSL_LVX	56

No	Nome	Х	Υ	W	ш
No.	Name		-		H 50
59	VSL_LVX	-5130	-755	40	50
60	GNDA	-5070	-755	40	50
61	VGH	-5010	-755	40	50
62	VGH	-4950	-755	40	50
63	VGH	-4890	-755	40	50
64	VGH	-4830	-755	40	50
65	VGH	-4770	-755	40	50
66	VGH	-4710	-755	40	50
67	VGH	-4650	-755	40	50
68	VGH	-4590	-755	40	50
69	VGH	-4530	-755	40	50
70	VGH	-4470	-755	40	50
71	VGH	-4410	-755	40	50
72	VGH	/-4350	-755	40	50
73	GNDA	-4290	-755	40	50
74	VSH	-4230	-755	40	50
75	VSH	-4170	-755	40	50
76	VSH	-4110	-755	40	50
77	VSH	-4050	-755	40	50
78	VSH	-3990	-755	40	50
79	VSH	-3930	-755	40	50
80	VSH	-3870	-755	40	50
81	VSH	-3810	-755	40	50
82	VSH	-3750	-755	40	50
83	VSH	-3690	-755	40	50
84	GNDA	-3630	-755	40	50
85	VSH_LV	-3570	-755	40	50
86	VSH_LV	-3510	-755	40	50
87	VSH_LV	-3450	-755	40	50
88	VSH_LV	-3390	-755	40	50
89	VSH_LV	-3330	-755	40	50
90	VSH_LV	-3270	-755	40	50
91	VSH_LV	-3210	-755	40	50
92	VSH_LV	-3150	-755	40	50
93	VSH_LV	-3090	-755	40	50
94	VSH_LV	-3030	-755	40	50
95	GNDA	-2970	-755	40	50
96	VSH_LVX	-2910	-755	40	50
97	VSH_LVX	-2850	-755	40	50
98	VSH_LVX	-2790	-755	40	50
99	VSH_LVX	-2730	-755	40	50
100	VSH_LVX	-2670	-755	40	50
101	VSH_LVX	-2610	-755	40	50
102	VSH_LVX	-2550	-755	40	50
103	VSH_LVX	-2490	-755	40	50
104	GNDA	-2430	-755	40	50
105	VDDD	-2370	-755	40	50
106	VDDD	-2310	-755	40	50
107	VDDD	-2250	-755	40	50
108	VDDD	-2190	-755	40	50
109	VDDD	-2130	-755	40	50
110	VDDD	-2070	-755	40	50
111	VDDDO	-2010	-755	40	50
112	VDDDO	-1950	-755	40	50
113	VDDDO	-1890	-755	40	50
114	VDDDO	-1830	-755	40	50
115	VDDDO	-1770	-755	40	50
116	VDDDO	-1710	-755	40	50



No.	Name	Х	Υ	W	Н
117	GND	-1650	-755	40	50
118	VDM	-1590	-755	40	50
119	VDM	-1530	-755	40	50
120	GND	-1470	-755	40	50
121	GND	-1410	-755	40	50
122	GND	-1350	-755	40	50
123	GND	-1290	-755	40	50
124	GND	-1230	-755	40	50
125	GND	-1170	-755	40	50
126	GND	-1110	-755	40	50
127	GND	-1050	-755	40	50
128	GND	-990	-755	40	50
129	GND	-930	-755	40	50
130	GNDA	-870	-755	40	50
131	GNDA	-810	-755	40	50
132	GNDA	-750	-755	40	50
133	GNDA	-690	-755	40	50
134	GNDA	-630	-755	40	50
135	GNDA	-570	-755	40	50
136	GNDA	-510	-755	40	50
137	GNDA	-450	-755	40	50
138	GNDA	-390	-755	40	50
139	GNDA	-330	-755	40	50
140	GNDA	-270	-755	40	50
141	VDDA	-210	-755	40	50
142	VDDA	-150	-755	40	50
143	VDDA	-90	-755	40	50
144	VDDA	-30	-755	40	50
145	VDDA	30	-755	40	50
146	VDDA	90	-755	40	50
147	VDDA	150	-755	40	50
148	VDDA	210	-755	40	50
149	VDDA	270	-755	40	50
150 151	VDDA VDD	330 390	-755	40 40	50
152	VDD	450	-755 -755	40	50 50
153	VDD	510	-755	40	50
154	VDD	570	-755 -755	40	50
155	VDD	630	-755	40	50
156	VDD	690	-755	40	50
157	VDD	750	-755	40	50
158	VDD	810	-755	40	50
159	VDD	870	-755	40	50
160	VDD	930	-755	40	50
161	TEST1	990	-755	40	50
162	TEST2	1050	-755	40	50
163	VDDIO	1110	-755	40	50
164	VDDIO	1170	-755	40	50
165	VDDIO	1230	-755	40	50
166	VDDIO	1290	-755	40	50
167	TEST3	1350	-755	40	50
168	XCLK	1410	-755	40	50
169	XSTL	1470	-755	40	50
170	XOE	1530	-755	40	50
171	XLE	1590	-755	40	50
172	EDATA<0>	1650	-755	40	50
173	EDATA<1>	1710	-755	40	50
174	EDATA<2>	1770	-755	40	50
175	EDATA<3>	1830	-755	40	50
176	EDATA<4>	1890	-755	40	50

NI.	Mana	T V	V	14/	
No.	Name	X 1050	Y 755	W	H
177	EDATA<5>	1950	-755	40	50
178	EDATA<6>	2010	-755	40	50
179	EDATA<7>	(2070	-755	40	50
180	GND	2130	-755	40	50
181	GCLK	2190	-755	40	50
182	STV	2250	-755	40	50
183	VDDIO	2310	-755	40	50
184	XON	2370	-755	40	50
185	DEN	2430	-755	40	50
186	GND	2490	-755	40	50
187	GND	2550	-755	40	50
188	FCSB	2610	-755	40	50
189	GND	2670	-755	40	50
190	FSCL	2730	-755	40	50
191	GND	2790	-755	40	50
192	FSDO	2850	-755	40	50
193	FSDI SCL	2910	-755	40	50
194		2970	-755	40	50
195	SDA	3030	-755	40	50
196	GND CSB	3090	-755	40	50
197		3150	-755	40	50
198 199	VDDIO MFCSB	3210	-755	40	50
		3270	-755	40	50
200	GND DC	3330	-755	40	50
201	VDDIO	3390 3450	-755 -755	40	50
202	FMSDO	3510	-755 -755	40 40	50 50
	BUSY N			40	
204		3570	-755	40	50
205 206	GND RST N	3630 3690	-755 -755	40	50 50
207	TESTVDD	3750	-755 -755	40	50
208	DUMMY	3810	-755 -755	40	50
208	DUMMY	3870	-755 -755	40	50
210	VDDIO	3930	-755	40	50
211	BS	3990	-755	40	50
212	GND	4050	-755	40	50
213	GND	4110	-755	40	50
214	VDD	4170	-755	40	50
215	VDD	4230	-755	40	50
216	VDDA	4290	-755	40	50
217	VDDA	4350	-755	40	50
218	TSDA	4410	-755	40	50
219	TSDA	4470	-755	40	50
220	TSCL	4530	-755	40	50
221	TSCL	4590	-755	40	50
222	GND	4650	-755	40	50
223	TEST4	4710	-755	40	50
224	GND	4770	-755	40	50
225	TEST5	4830	-755	40	50
226	GND	4890	-755	40	50
227	TEST6	4950	-755	40	50
228	GND	5010	-755	40	50
229	TEST7	5070	-755	40	50
230	TEST8	5130	-755	40	50
231	TEST9	5190	-755	40	50
232	TEST10	5250	-755	40	50
233	TEST11	5310	-755	40	50
234	TEST12	5370	-755	40	50
235	TEST13	5430	-755	40	50
236	TEST14	5490	-755	40	50



Na	Nama	V	V	10/	- 11
No.	Name	X	Y 755	W 40	H 50
237	TEST15	5550	-755	40	50
238	VCOMVS<0>	5610	-755 -755	40	50
239	VCOMVS<1>	5670	-755	40	50
240	FSOURCE	5730	-755	40	50
241	FSOURCE	5790	-755	40	50
242	FSOURCE	5850	-755	40	50
243	VPPM	5910	-755	40	50
244	VPPM	5970	-755	40	50
245	VPPM	6030	-755	40	50
246	VPPM	6090	-755	40	50
247	VPPM	6150	-755	40	50
248	VPPM	6210	-755	40	50
249	VGH	6270	-755	40	50
250	VGH	6330	-755	40	50
251	VGH	6390	-755	40	50
252	VGH	6450	-755	40	50
253	VGH	6510	-755	40	50
254	VGH	6570	-755	40	50
255	VGH	6630	-755	40	50
256	VGH	6690	-755	40	50
257	VGL	6750	-755	40	50
258	VGL	6810	-755	40	50
259	VGL	6870	-755	40	50
260	VGL	6930	-755	40	5 0
261	VGL	6990	-755	40 /	50
262	VGL	7050	-755	40	50
263	VGL	7110	-755	40	50
264	GNDA	7170	-755	40	50
265	FB	7230	-755	40	50
266	FB	7290	-755	40	50
267	GNDA	7350	-755	40	50
268	RESE	7410	-755	40	50
269	RESE	7470	-755	40	50
270	GNDA	7530	-755	40	50
271	GDR	7590	-755	40	50
272	GDR	7650	-755	40	50
273	GDR	7710	-755	40	50
274	GDR	7770	-755	40	50
275	GDR	7830	-755	40	50
276	GDR	7890	-755	40	50
277	VDM	7950	-755	40	50
278	VDM	8010	-755	40	50
279	PATH1	8070	-755	40	50
280	VCOM	8130	-755	40	50
281	VCOM	8190	-755	40	50
282	VCOM	8250	-755	40	50
283	VCOM	8310	-755	40	50
284	VCOM	8370	-755	40	50
285	VCOM	8430	-755	40	50
286	VCOM	8490	-755	40	50
287	VCOM	8550	-755	40	50
288	DUMMY	8610	-755	40	50
289	DUMMY	8617	626	12	100
290	DUMMY	8602	751	12	100
291	G<0>	8587	626	12	100
292	G<2>	8572	751	12	100
293	G<4>	8557	626	12	100
294	G<6>	8542	751	12	100
295	G<8>	8527	626	12	100
296	G<10>	8512	751	12	100

		V	V	147	
No.	Name	X	Y	W	H
297	G<12>	8497	626	12	100
298	G<14>	8482	751	12	100
299	G<16>	8467	626	12 12	100
300 301	G<18>	8452	751	12	100
	G<20>	8437	626		100
302	G<22>	8422	751	12	100
303	G<24>	8407	626	12 12	100
304 305	G<26>	8392 8377	751 626	12	100 100
306	G<20>	8362		12	100
307	G<32>	8347	751 626	12	100
308	G<34>	8332	751	12	100
309	G<36>	8317	626	12	100
310	G<38>	8302	751	12	100
311	G<40>	8287	626	12	100
312	G<42>	8272	751	12	100
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