EK79001H*-S

Rev. 1.6

DATA SHEET

1536-Output TFT LCD Source Driver with TCON

fitipower integrated technology Inc.

Table of Contents

Page

1. GENERAL DESCRIPTION 3
2. FEATURES 3
3. BLOCK DIAGRAM 4
4. PIN DESCRIPTION 9
   - 4.1. Value of wiring resistance to each pin 12
5. 3_WIRE SERIAL PORT INTERFACE 13
   - 5.1. 3-Wire Command Format 13
6. FUNCTION DESCRIPTION 16
   - 6.1. Power On/Off Sequence 16
   - 6.2. Power-On Timing Sequence for TTL and LVDS interface 16
   - 6.3. Power Off Timing Sequence for TTL and LVDS interface 16
   - 6.4. Input Data VS Output Channels 17
   - 6.5. Input Data VS Output Voltage 17
   - 6.6. Input Data and Output Voltage Reference Table 18
   - 6.7. Data Input Format for LVDS 20
   - 6.8. Data Input Format for TTL 21
   - 6.9. Parallel RGB Timing Characteristic 22
7. ELECTRICAL SPECIFICATION 26
   - 7.1. Absolute Maximum Ratings 26
   - 7.2. Recommended Operating Range 26
   - 7.3. DC Electrical Characteristics 27
   - 7.4. AC Electrical Characteristics 30
   - 7.5. Output Timing Table 33
8. SDRRS TIMING DIAGRAM 36
9. CHIP OUTLINE DIMENSIONS 37
   - 9.1. Alignment Mark 38
   - 9.2. Pad Coordinate (pad shift) 39
10. DEFINITIONS 55
    - 10.1. Data Sheet Status 55
    - 10.2. Life Support Application 55
11. REVISION HISTORY 55

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Single Chip 1536 Channel Source Driver with Timing Controller for 1024RGB × 600 TFT LCD

1. GENERAL DESCRIPTION

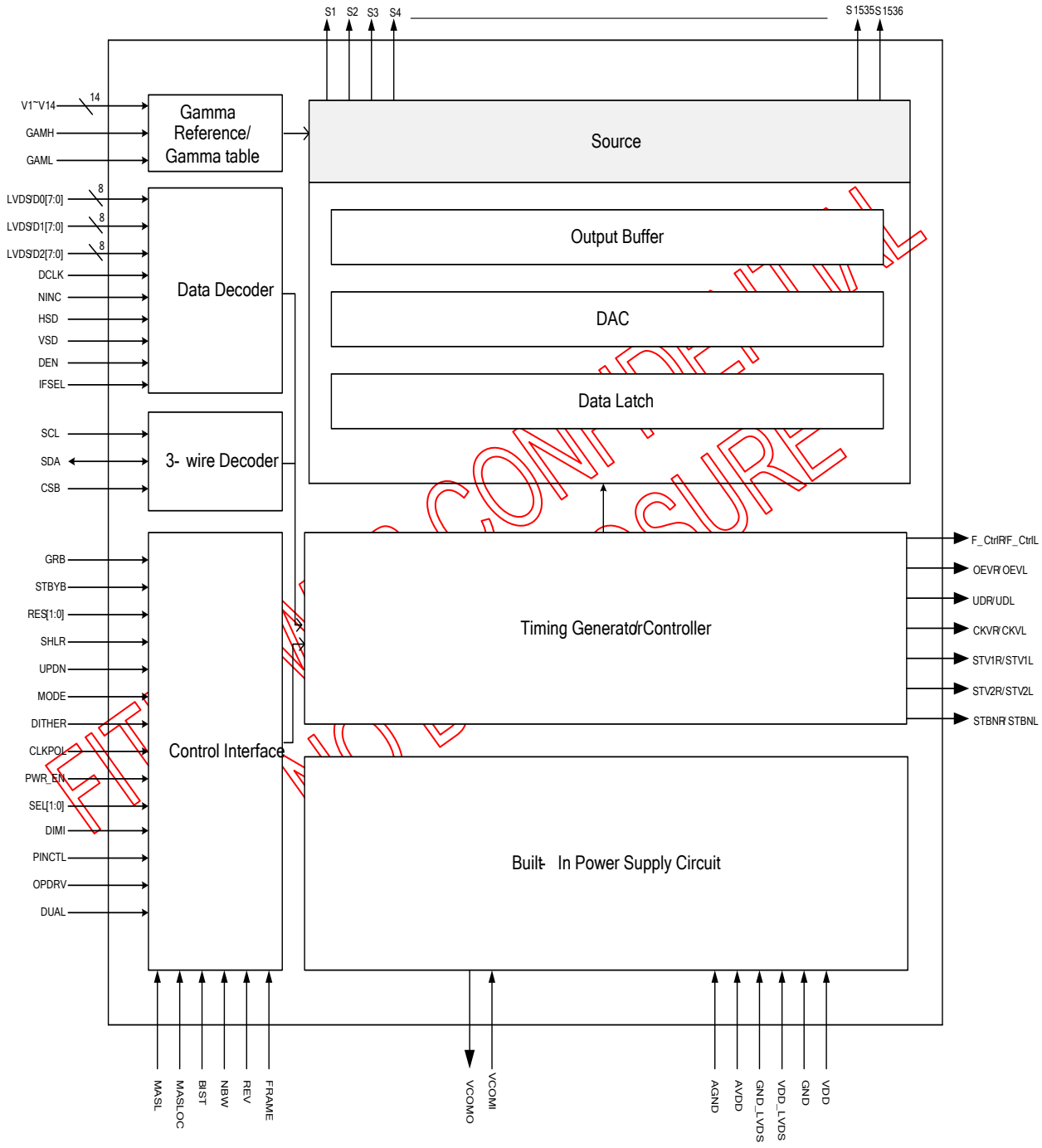
The EK79001 is a highly integrated solution for small size to middle size a-Si TFT-LCD panels. This chip integrates 1536ch dual gate mode source driver with LVDS and parallel RGB input interface.

2. FEATURES

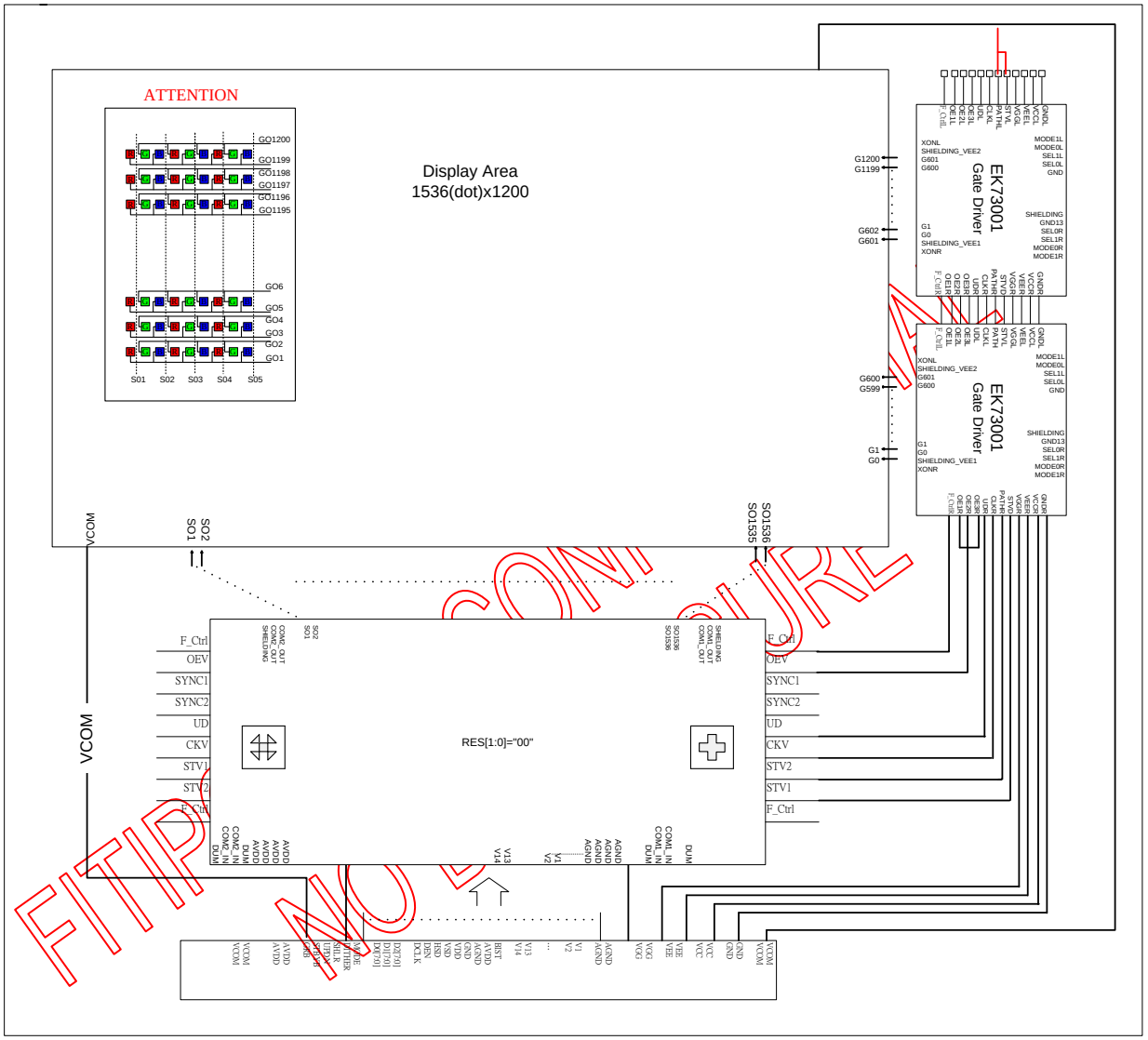
- Special design for 1024RGBx600 TFT LCD Panel with LVDS/TTL interface
- Integrate 1536 channel source driver (only for dual gate function)
- Support bidirectional shift control (CMOS signal)
- Support panel resolution (HxV): 1024(RGB) x 768 , 1024(RGB) x 600 , 800(RGB) x 600, 800(RGB) x 480
- 8-bit resolution 256 gray-scale with Dithering (6 bits DAC + 2 bit FRC or HFRC)
- Support Pin Control function for Up/Down, Left/Right … control
- Power for digital circuit (VDD): 2.3V ~ 3.6V
- Power for analog circuit (AVDD): 8V ~ 13.5V
- Operating frequency: 71 MHz (Max.)
- Embedded Gamma Table for special custom request
- V1~V14 for adjusting Gamma correction
- 1 + 2 dot inversion architecture
- Built-In AUTO pattern
- Built-In VCOM Buffer
- Built-In SDRRS function
- Support no_clock detection
- COG package
- Chip size = 24928um x 641um
- Output bump pitch = 15um

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

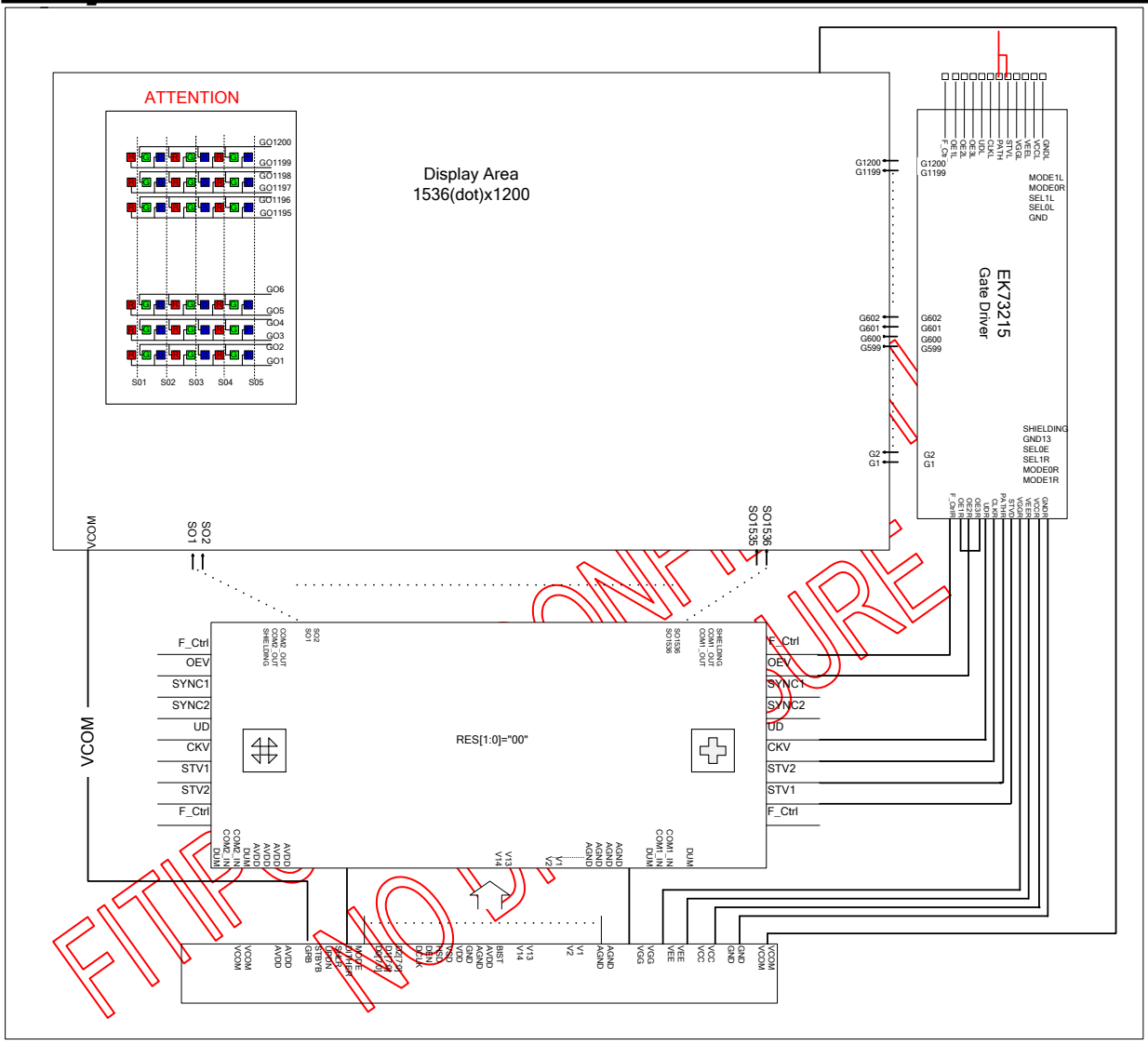
3. BLOCK DIAGRAM



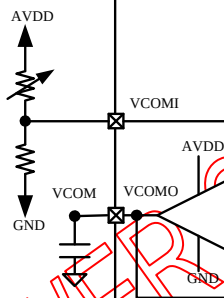
Block Diagram



Application Block Diagram-Dual Gate Application

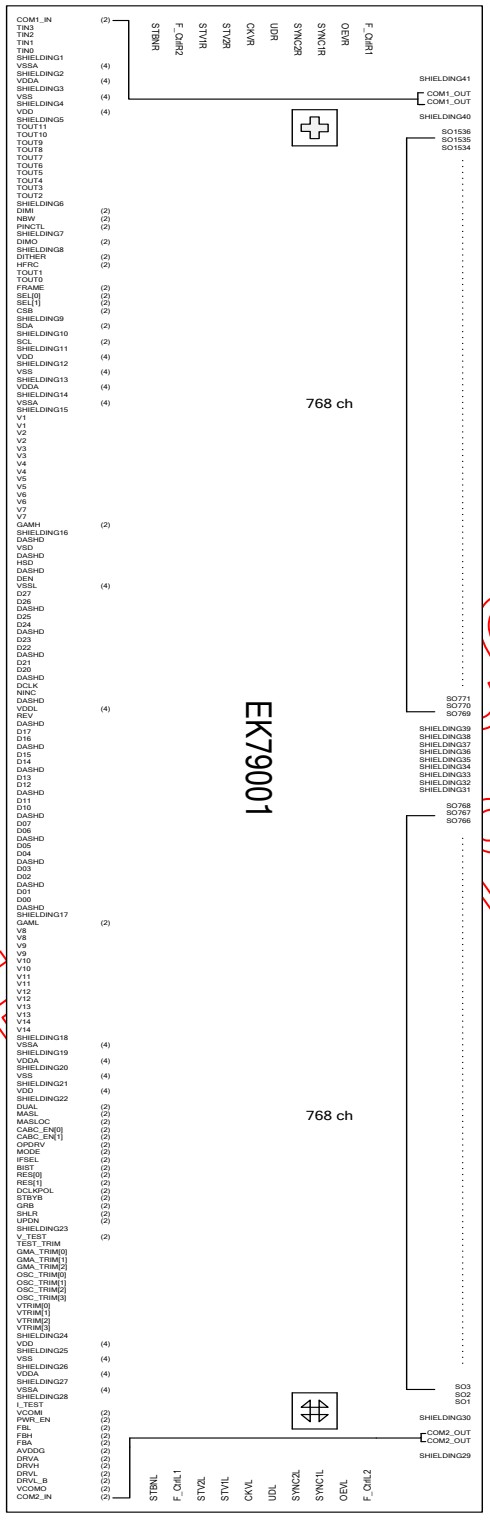


Application Block Diagram-Dual Gate Application



FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Application Power Circuit



CONFIDENTIAL
DISCLOSURE

Pad Sequence (Bump Side)

4. PIN DESCRIPTION

Pin Description

<table>
<tr><th>Pin Name</th><th>Pin Type</th><th>Description</th></tr>
<tr><td>D07~D00
D17~D10
D27~D20</td><td>Input</td><td>LVDS or Parallel RGB data Input. Select by “IFSEL” pin.
<table>
<tr><th>Pin name</th><th>TTL input mode
IFSEL=”L”</th><th>LVDS input mode
IFSEL=”H”</th></tr>
<tr><td>D2[0],D2[1]</td><td>B[0],B[1]</td><td>NIND0,PIND0</td></tr>
<tr><td>D2[2],D2[3]</td><td>B[2],B[3]</td><td>NIND1,PIND1</td></tr>
<tr><td>D2[4],D2[5]</td><td>B[4],B[5]</td><td>NIND2,PIND2</td></tr>
<tr><td>D2[6],D2[7]</td><td>B[6],B[7]</td><td>NIND3,PIND3</td></tr>
</table>
LVDS 6 bit data input: PIND[2:0], NIND[2:0].
D[07:00] = R[7:0] data; D[17:10] = G[7:0] data; D[27:20] = B[7:0] data.
For 18bit RGB interface, connect two LSB bits of all the R/G/B data buses to GND.
Note : D07~D00 -> SO1 , SO4 … SO1531 , SO1534
D17~D10 -> SO2 , SO5 … SO1532 , SO1535
D27~D20 -> SO3 , SO6 … SO1533 , SO1536
Please note the relation between RGB data and Color Filter sequence
Note: For LVDS interface, it’s necessary to put on external terminal resistor (on FPC or PCB board) between NIND0/PIND0, NIND1/PIND1, NIND2/PIND2, NIND3/PIND3, NINC/PINC.</td></tr>
<tr><td>DCLK</td><td>Input</td><td>Clock Input pin for LVDS or TTL mode. Select by “IFSEL” pin
<table>
<tr><th>Pin name</th><th>TTL input mode
IFSEL=”L”</th><th>LVDS input mode
IFSEL=”H”</th></tr>
<tr><td>DCLK</td><td>DCLK</td><td>PINC</td></tr>
</table>
Note: For LVDS interface, it’s necessary to put on external terminal resistor(on FPC or PCB board) between NIND0/PIND0, NIND1/PIND1, NIND2/PIND2, NIND3/PIND3, NINC/PINC.</td></tr>
<tr><td>NINC</td><td>Input</td><td>Negative LVDS differential clock input.
Note: For LVDS interface, it’s necessary to put on external terminal resistor (on FPC or PCB board) between NIND0/PIND0, NIND1/PIND1, NIND2/PIND2, NIND3/PIND3, NINC/PINC.</td></tr>
<tr><td>HSD</td><td>Input</td><td>Horizontal Sync input for TTL mode. Negative polarity.
(In LVDS interface connected HSD to FPC for pin setting
HSD=”L”:8 bit
HSD=”H”:6 bit)</td></tr>
<tr><td>VSD</td><td>Input</td><td>Vertical Sync input for TTL mode. Negative polarity.
(In LVDS Interface , connected to FPC and pull low)</td></tr>
<tr><td>DEN</td><td>Input</td><td>Data Input Enable. Active High to enable the data input bus under “DE Mode”. Normally pull low.</td></tr>
<tr><td>MODE</td><td>Input</td><td>DE / SYNC mode select under TTL mode. Normally pull high
H : DE mode.
L : HSD mode.(Note: Only support VESA format)</td></tr>
<tr><td>IFSEL</td><td>Input</td><td>IFSEL = L : TTL interface
IFSEL = H : LVDS interface</td></tr>
</table>

FITIPOWER CONFIDENTIAL
NOT FOR DISCLOSURE

Pin Name	Pin Type	Description
RES[1:0]	Input	RES[1:0]="01",for 1024(RGB)*768 display resolution RES[1:0]="00",for1024(RGB)*600 display resolution (Default) RES[1:0]="10",for 800(RGB)*600 display resolution (601~936 channel disable) RES[1:0]="11", for 800(RGB)*480 display resolution (601~936 channel disable)
DITHER	Input	Dithering function enable control. Normally pull low In LVDS 6-bit mode, IC don't care DITHER and HFRC setting. DITHER = "1", Enable internal dithering function DITHER = "0", Disable internal dithering function. If in LVDS 8-bit or TTL mode, IC will bypass D01/D00,D11/D10,D21/D20.
HFRC	Input	H-FRC selection. Normally pull low HFRC = H : H-FRC enable If "DITHER"="L",disable dithering function(HFRC and FRC disable)
DCLKPOL	Input	Input clock edge selection. Normally pull low CLKPOL = "1", Latch data at DCLK rising edge. CLKPOL = "0", Latch data at DCLK falling edge. (Default)
DUAL	Input	Reserve
V1~V14	Input	When INTERNAL Gamma Table is used. GAMH tied to AVDD, GAML tied to GND and V1~V14 pad are un-used. When using external gamma voltage, GAMH and GAML are floating , and V1~V14 are the external gamma correction points. The voltage of these pins must be: AGND<V14<V13<V12<V11<V10<V9<V8;V7<V6<V5<V4<V3<V2<V1<AVDD .
GAMH	Input	When using INTERNAL Gamma Table , tied to AVDD . Otherwise floating.
GAML	Input	When using INTERNAL Gamma Table , tied to GND . Otherwise floating.
GRB	Input	Global reset pin. Active Low to enter Reset State. Normally pull high. **It's necessary to connecting with an RC delay circuit for stability. (GRB delay VDD larger than 1ms)**
STBYB	Input	Standby mode, Normally pull high. STBYB = "1",normal operation STBYB = "0", timing controller, source driver will turn off, all output are High-Z
MASL	Input	Reserve
MASLOC	Input	Reserve
SHLR	Input	Source Right or Left sequence control. Normally pull high. SHLR = "L", shift left: last data = S1←S2←S3…….....←S1536 = first data. SHLR = 'H', shift right: first data = S1→S2→S3……..→S1536 = last data.
UPDN	Input	Gate Up or Down scan control. Normally pull low. UPDN = "L", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver. UPDN = "H", STV1 output vertical start pulse and UD pin output logical "1" to Gate driver.

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

<table>
<tr><th>Pin Name</th><th>Pin Type</th><th>Description</th></tr>
<tr><td>BIST</td><td>Input</td><td>Normal Operation/BIST pattern select. Normally pull low
BIST = H : BIST(DCLK input is not needed) BIST = L : Normal Operation</td></tr>
<tr><td>NBW</td><td>Input</td><td>Normally black or normally white setting. Normally pulled low. NBW = H : Normally black
NBW = L : Normally white</td></tr>
<tr><td>REV</td><td>Input</td><td>Controls whether the data of D00~D27 are inverted or not, normally pulled low.
When “REV”=1 these data will be inverted. EX. “00”→“ 3F”, “07”→“ 38”, “15”→“2A”, and so on.</td></tr>
<tr><td>FRAME</td><td>Input</td><td>Frame inverse or not select. Normally pull low.
FRAME = “1”, Uniform
FRAME = “0”, Frame inverse (Default)</td></tr>
<tr><td>SEL[1:0]</td><td>Input</td><td>Gate on sequence select. Normally pull low
<table>
<tr><th>SEL[0]</th><th>SEL[1]</th><th>Pin control function</th></tr>
<tr><td>1</td><td>1</td><td>Z+2</td></tr>
<tr><td>1</td><td>0</td><td>2</td></tr>
<tr><td>0</td><td>1</td><td>2</td></tr>
<tr><td>0</td><td>0</td><td>Z(default)</td></tr>
</table></td></tr>
<tr><td>OEVR/OEVL</td><td>Output</td><td>Gate driver control signal (BIST sync control)</td></tr>
<tr><td>SYNC1R/SYNC1L</td><td>Output</td><td>BIST sync control</td></tr>
<tr><td>SYNC2R/SYNC2L</td><td>Output</td><td>BIST sync control</td></tr>
<tr><td>UDR/UDL</td><td>Output</td><td>Gate driver control signal (BIST sync control)</td></tr>
<tr><td>CKVR/CKVL</td><td>Output</td><td>Gate driver control signal (BIST sync control)</td></tr>
<tr><td>STV1R/STV1L</td><td>Output</td><td>Gate driver control signal</td></tr>
<tr><td>STV2R/STV2L</td><td>Output</td><td>Gate driver control signal</td></tr>
<tr><td>STBNR/STBNL</td><td>Output</td><td>Gate driver control signal</td></tr>
<tr><td>F_CtrlR/F_CtrlL</td><td>Output</td><td>Gate driver control signal (For special Gate on sequence).
NOTE :In Dual Gate structure , connect this pin to gate driver’s F_Ctrl . And setting gate driver’s SEL[1:0] to “00”.</td></tr>
<tr><td>DIMI</td><td>Input</td><td>Brightness control signal. Normally pull high.</td></tr>
<tr><td>DIMO</td><td>Output</td><td>Backlight dimmer signal for external controller.
DIMO = “0”, Turn off external backlight controller
DIMO = “1”, Logical control signal to turn on external backlight controller</td></tr>
<tr><td>PINCTL</td><td>Input</td><td>Enable pin control function. Normally pull high
PINCTL=”0”, Disable pin control function.
The following pin will be inactive:
MODE,RES[1:0],DITHER,HFRC,DCLKPOL,SHLR,UPDN,BIST,NBW,
FRAME,SEL[1:0],OPDRV,PWR_EN.
PINCTL=”1”, Enable pin control function.
NOTE: The related 3-wire control register bit control will be disabled under PINCTL=”1”.</td></tr>
<tr><td>OPDRV</td><td>Input</td><td>Source OP driving selection. Normally pull low
OPDRV = H : 133%
OPDRV = L : normal</td></tr>
<tr><td>CSB</td><td>Input</td><td>Serial communication chip select. Normally pull high</td></tr>
<tr><td>SDA</td><td>Input/Output</td><td>Serial communication data input. Normally pull low</td></tr>
<tr><td>SCL</td><td>Input</td><td>Serial communication clock input. Normally pull low</td></tr>
</table>

FITIPOWER CONFIDENTIAL
NDA DISCLOSURE

Pin Name	Pin Type	Description
AVDD	PI	Power supply for analog circuits
AGND	PI	Ground pins for analog circuits
VDD	PI	Power supply for digital circuits
GND	PI	Ground pins for digital circuits
VDD_LVDS	PI	LVDS power
GND_LVDS	PI	LVDS ground
PWR_EN	Input	POWER enable. Normally pull low PWR_EN = H , enable internal VCOM buffer PWR_EN = L , disable internal VCOM buffer
VCOMI	Input	VCOM buffer in
VCOMO	Output	VCOM buffer out
SO1~SO1536	Output	Source Driver Output Signals All outputs will be of unknown values under stand-by mode.
COM1_IN COM1_OUT	S	Internal link together between input side and output side
COM2_IN COM2_OUT	S	Internal link together between input side and output side.
TP	T	Float these pins for normal operation
SHIELDING	SH	Those pins are internally connected to the AGND. DO NOT connect to any WOA on the panel. Data Bus Shielding pad
DASHD	SH	Those pins are internally connected to the GND. RECOMMAND to add shielding lines on the FPC to reduce EMI.
DUM	Dummy	Dummy pads. Those pins are floating pads.

Note:
P: Power, D: Dummy, S: Shorted line, M: Mark, PI: Power input, PO: Power output,
T: Testing, SH: Shielding, PS: Power Setting, C: Capacitor pin.

EK79001 Pass Line Description:

Pass Line No:	Pad Name	
1	COM1_IN	COM1_OUT
2	COM2_IN	COM2_OUT

4.1. Value of wiring resistance to each pin

The recommended wiring resistance values are shown below. The wiring resistance values affect the current capacity of the power supply, so be sure to design using values that do not exceed those recommended.

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Wiring resistance

Pin Name	Wiring Resistance value(Ω)	Pin Name	Wiring resistance value (Ω)
AVDD	<5	RES0	<100
AGND	<5	RES1	<100
VDD	<5	SHLR	<100
GND	<5	UPDN	<100
V1~V14	<5	BIST	<100
DRVx	<5	MODE	<100
FBx	<5	DCLKPOL	<100
VCOMI	<5	DIMO	<100
VCOMO	<5	IFSEL	<100
D00~D07	<5	F_Ctrlx	<100
D10~D17	<5	OEVx	<100
D20~D27	<5	Udx	<500
DCLK	<5	CKVx	<100
NINC	<5	STV1x	<100
VSD	<20	STV2x	<100
HSD	<20	STBNx	<500
DEN	<20	VGH	<10
GRB	<100	VGL	<10
STBYB	<100		
DITHER	<100		

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

5. 3_WIRE SERIAL PORT INTERFACE

5.1. 3-Wire Command Format

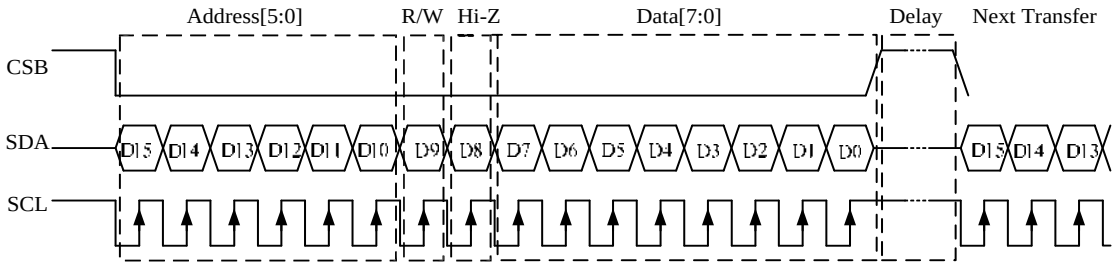
EK79001 use the 3-wire serial port as communication interface for all the function and parameter setting.

3-Wire communication can be bi-directional controlled by the “R/W” bit in address field. EK79001 3-Wire engine act as a “slave mode” for all the time, and will not issue any command to the 3-Wire bus itself.

Under read mode, 3-Wire engine will return the data during “Data phase”. The returned data should be latched at the rising edge of SCL by external controller. Data in the “Hi-Z phase” will be ignored by 3-Wire engine during write operation, and should be ignored during read operation also. During read operation, external controller should float SDA pin under “Hi-Z phase” and “Data phase”.

Each Read/Write operation should be exactly 16 bit. To prevent from incorrect setting of the internal register, any write operation with more or less than 16 bit data during a CSB Low period will be ignored by 3-Wire engine.

For prevent from incorrect setting of the internal register. Please refer to the section of “3-Wire Timing.



3-Wire timing chart

3-Wire Command Format

Bit	Description
D15~D10	Register Address [5:0].
D9	W/R control bit. “0” for Write; “1” for Read
D8	Hi-Z bit during read mode. Any data within this bits will be ignored during write mode
D7~D0	Data for the W/R operation to the address indicated by Address phase

3-Wire Write Format

MSB															LSB
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Register Address[5:0]						0	X	Data(Issue by external controller)							

3-Wire Read Format

MSB															
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Register Address[5:0]						1	Hi-Z	Data(Issue by 3-wire engine)							

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

3-Wire Control Registers:

Following table list all the 3-Wire control registers and bit name definition for EK79001. Refer to the next section for detail register function description please.

Setting of all the 3-Wire registers will take effect at the coming falling edge of VSD except GRB and STB bit.

R0: System Control Register:

Designation	Address	Description
Mode	R0[0]	DE/SYNC mode select. MODE=”0”, HSD/VSD mode MODE=”1”, DE mode(default)
DCLKPOL	R0[1]	DCLK polarity control bit. DCLKPOL=”0”: Data sampling at DCLK falling edge. (Default) DCLKPOL=”1”: Data sampling at DCLK rising edge.
GRB	R0[2]	Global reset bit. GRB=”0”, The controller is in reset state. GRB=”1”, Normal operation. (Default)
STBYB	R0[3]	Standby mode selection bit. STBYB=”0”, Timing control, driver and DC-DC converter, are off, and all outputs are High-Z.

		STBYB="1", Normal operation. (Default)
UPDN	R0[4]	G Gate Up or Down scan control. UPDN = "0", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver. (Default) UPDN = "1", STV1 output vertical start pulse and UD pin output logical "1" to Gate driver.
SHLR	R0[5]	Right/Left sequence control of source driver. SHLR="0", Shift left: Last data = S1<S2<S3<…<S960=First data SHLR="1", Shift right: First data = S1<S2<S3<…<S960=Last data(Default)
	R0[6]	Reserved

R1: System Control Register:

Designation	Address	Description
		Reserved
RES[1:0]	R1[2:1]	RES[1:0] = "01", for 1024(RGB)*768 display resolution RES[1:0] = "00", for 1024(RGB)*600 display resolution (default) RES[1:0] = "10", for 800(RGB)*600 display resolution (601~936 channel disable) RES[1:0] = "11", for 800(RGB)*480 display resolution (601~936 channel disable)
BIST	R1[3]	Normal Operation/BIST pattern select. BIST = H : BIST(DCLK input is not needed) BIST = L : Normal Operation (Default)
DITHER	R1[4]	Dithering function enable control. DITHER = "1", Enable internal dithering function DITHER = "0", Disable internal dithering function (Default)
HFRC	R1[5]	H-FRC selection HFRC = H : H-FRC enable HFRC = L : FRC enable (Default) If DITHER="0",disable dithering function(H-FRC and FRC disable)

R2: System Control Register:

Designation	Address	Description
		Reserved
NBW	R2[6]	Normally black or normally white setting. NBW="H": Normally black. NBW="L": Normally white(Default).
	R2[7]	Reserved

R3: Gate on sequence Controller Register:

Designation	Address	Description
SEL[1:0]	R3[1:0]	Gate on sequence select. SEL[0] / SEL[1] / Pin control function 1 / 1 / Z+² 1 / 0 / ² 0 / 1 / S 0 / 0 / Z(default)
FRAME	R3[2]	Frame inverse or not select. FRAME = "1", Uniform FRAME = "0", Frame inverse(Default)
		Reserved

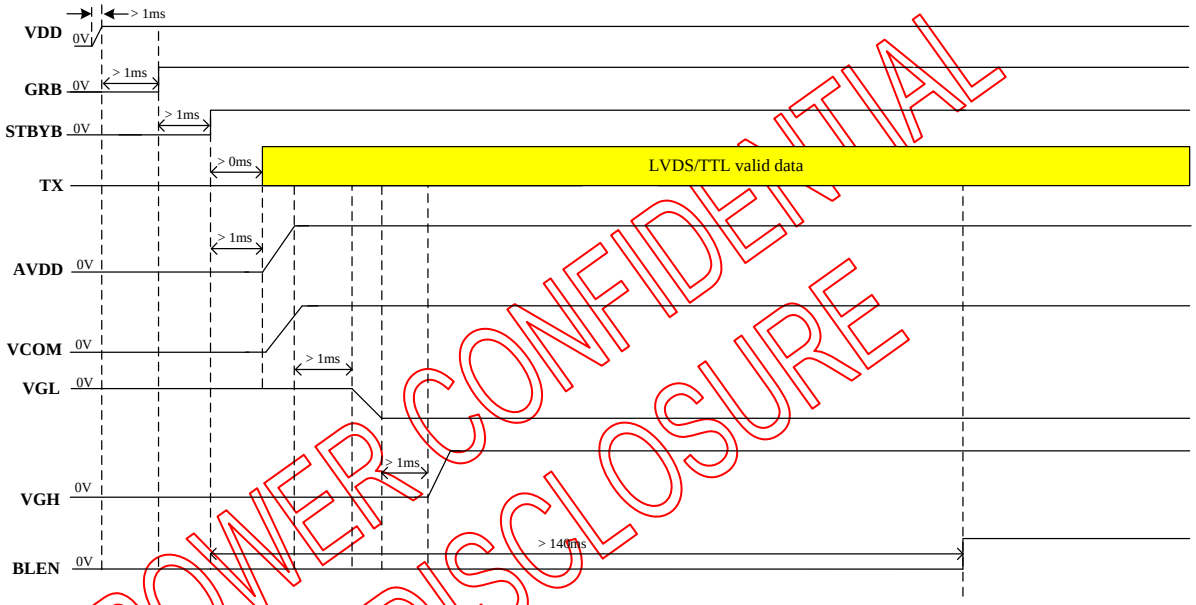
FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6. FUNCTION DESCRIPTION

6.1. Power On/Off Sequence

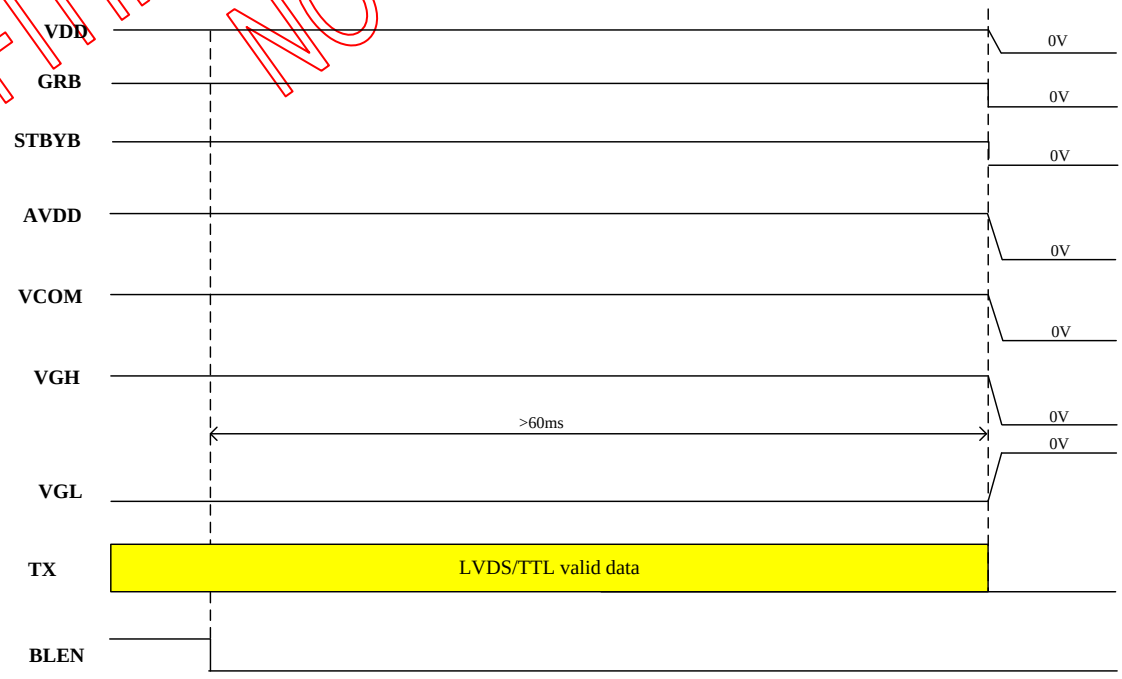
In order to prevent IC from power on reset fail, the rising time (TPOR) of the digital power supply VDD should be maintained within the given specifications. Refer to “AC Characteristics” for more detail on timing.

6.2. Power On Timing Sequence for TTL and LVDS interface



FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.3. Power Off Timing Sequence for TTL and LVDS interface



6.4. Input Data VS Output Channels

SHLR="1",right shift

Output	SO1	SO2	SO3	---	SO1534	SO1535	SO1536
Order	First data			->	Last data		
Odd Line/ Gn	D07~D00	D27~D20	D17~D10	---	D07~D00	D27~D20	D17~D10
Odd Line/ Gn+1	D17~D10	D07~D00	D27~D20	---	D17~D10	D07~D00	D27~D20
Even Line/ Gn	D07~D00	D27~D20	D17~D10	---	D07~D00	D27~D20	D17~D10
Even Line/ Gn+1	D17~D10	D07~D00	D27~D20	---	D17~D10	D07~D00	D27~D20

SHLR="0",left shift

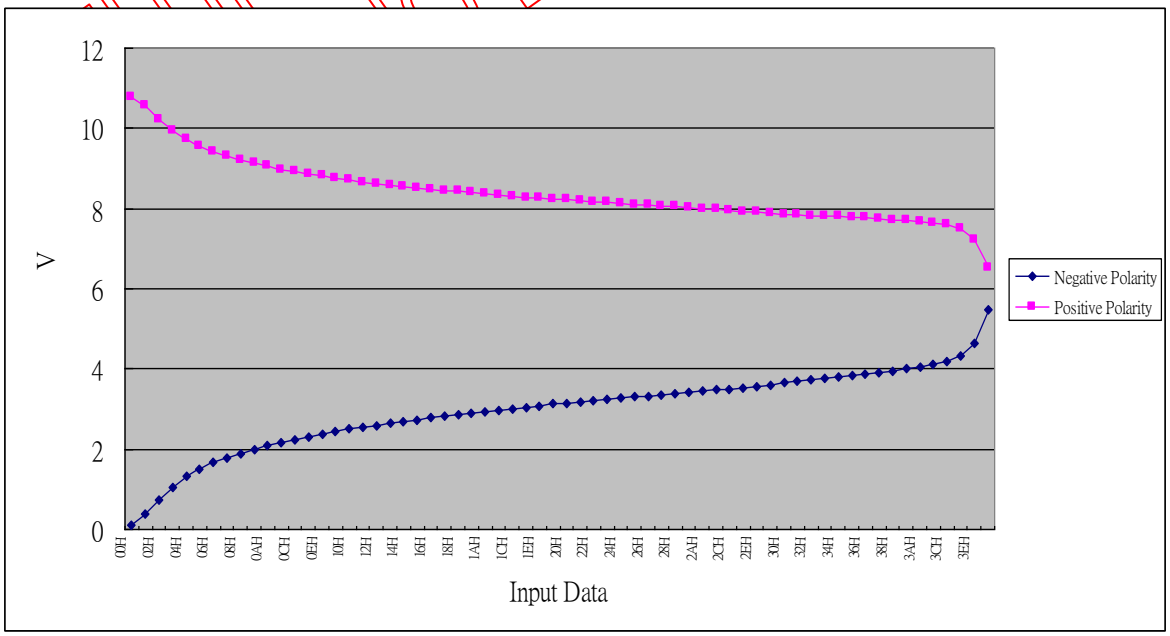
Output	SO1	SO2	SO3	---	SO1534	SO1535	SO1536
Order	Last data			<-	First data		
Odd Line/ Gn	D07~D00	D27~D20	D17~D10	---	D07~D00	D27~D20	D17~D10
Odd Line/ Gn+1	D17~D10	D07~D00	D27~D20	---	D17~D10	D07~D00	D27~D20
Even Line/ Gn	D07~D00	D27~D20	D17~D10	---	D07~D00	D27~D20	D17~D10
Even Line/ Gn+1	D17~D10	D07~D00	D27~D20	---	D17~D10	D07~D00	D27~D20

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.5. Input Data VS Output Voltage

The figure below shows the relationship between the input data and the output voltage. Refer to the following pages for the relative resistor values and voltage calculation method.

Gamma Tables very for each customer.



Remark: AVDD-0.1 > V1 > V2> V3 > V4 > V5 > V6 > V7; V8 > V9 > V10 > V11 > V12 > V13 > V14 > AGND+0.1V

6.6. Input Data and Output Voltage Reference Table

Input Data and Output Voltage Reference Table

@AVDD=9.6V

V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	Unit
8.8512	8.4864	7.44	7.056	6.7776	6.336	5.5296	4.9536	4.0512	3.4176	3.0144	2.5632	1.296	0.8064	V

Data	Positive
00H	AVDD×0.922
01H	AVDD×0.884
02H	AVDD×0.860
03H	AVDD×0.843
04H	AVDD×0.832
05H	AVDD×0.822
06H	AVDD×0.815
07H	AVDD×0.809
08H	AVDD×0.803
09H	AVDD×0.798
0AH	AVDD×0.793
0BH	AVDD×0.789
0CH	AVDD×0.786
0DH	AVDD×0.782
0EH	AVDD×0.780
0FH	AVDD×0.777
10H	AVDD×0.775
11H	AVDD×0.772
12H	AVDD×0.769
13H	AVDD×0.767
14H	AVDD×0.764
15H	AVDD×0.761
16H	AVDD×0.759
17H	AVDD×0.756
18H	AVDD×0.753
19H	AVDD×0.751
1AH	AVDD×0.748
1BH	AVDD×0.745
1CH	AVDD×0.743
1DH	AVDD×0.741
1EH	AVDD×0.739
1FH	AVDD×0.737

Data	Positive
20H	AVDD×0.735
21H	AVDD×0.733
22H	AVDD×0.731
23H	AVDD×0.729
24H	AVDD×0.727
25H	AVDD×0.725
26H	AVDD×0.724
27H	AVDD×0.722
28H	AVDD×0.720
29H	AVDD×0.718
2AH	AVDD×0.716
2BH	AVDD×0.715
2CH	AVDD×0.713
2DH	AVDD×0.711
2EH	AVDD×0.709
2FH	AVDD×0.707
30H	AVDD×0.706
31H	AVDD×0.704
32H	AVDD×0.702
33H	AVDD×0.699
34H	AVDD×0.697
35H	AVDD×0.694
36H	AVDD×0.692
37H	AVDD×0.689
38H	AVDD×0.687
39H	AVDD×0.684
3AH	AVDD×0.681
3BH	AVDD×0.678
3CH	AVDD×0.674
3DH	AVDD×0.669
3EH	AVDD×0.66
3FH	AVDD×0.576

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

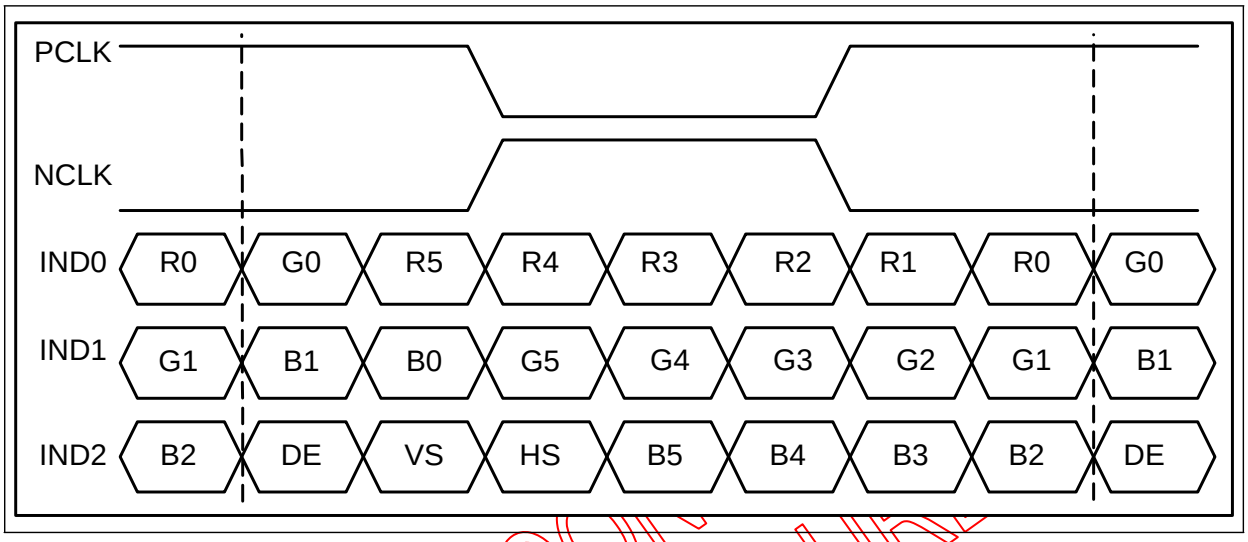
Data	Negative
00H	AVDD×0.084
01H	AVDD×0.135
02H	AVDD×0.163
03H	AVDD×0.183
04H	AVDD×0.196
05H	AVDD×0.208
06H	AVDD×0.218
07H	AVDD×0.226
08H	AVDD×0.233
09H	AVDD×0.239
0AH	AVDD×0.245
0BH	AVDD×0.249
0CH	AVDD×0.254
0DH	AVDD×0.257
0EH	AVDD×0.260
0FH	AVDD×0.263
10H	AVDD×0.267
11H	AVDD×0.270
12H	AVDD×0.273
13H	AVDD×0.277
14H	AVDD×0.280
15H	AVDD×0.283
16H	AVDD×0.286
17H	AVDD×0.289
18H	AVDD×0.292
19H	AVDD×0.294
1AH	AVDD×0.297
1BH	AVDD×0.300
1CH	AVDD×0.303
1DH	AVDD×0.305
1EH	AVDD×0.308
1FH	AVDD×0.311

Data	Negative
20H	AVDD×0.314
21H	AVDD×0.316
22H	AVDD×0.319
23H	AVDD×0.321
24H	AVDD×0.324
25H	AVDD×0.327
26H	AVDD×0.329
27H	AVDD×0.332
28H	AVDD×0.335
29H	AVDD×0.337
2AH	AVDD×0.340
2BH	AVDD×0.342
2CH	AVDD×0.345
2DH	AVDD×0.348
2EH	AVDD×0.350
2FH	AVDD×0.353
30H	AVDD×0.356
31H	AVDD×0.358
32H	AVDD×0.362
33H	AVDD×0.365
34H	AVDD×0.369
35H	AVDD×0.372
36H	AVDD×0.376
37H	AVDD×0.379
38H	AVDD×0.383
39H	AVDD×0.387
3AH	AVDD×0.391
3BH	AVDD×0.396
3CH	AVDD×0.402
3DH	AVDD×0.409
3EH	AVDD×0.422
3FH	AVDD×0.516

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.7. Data Input Format for LVDS

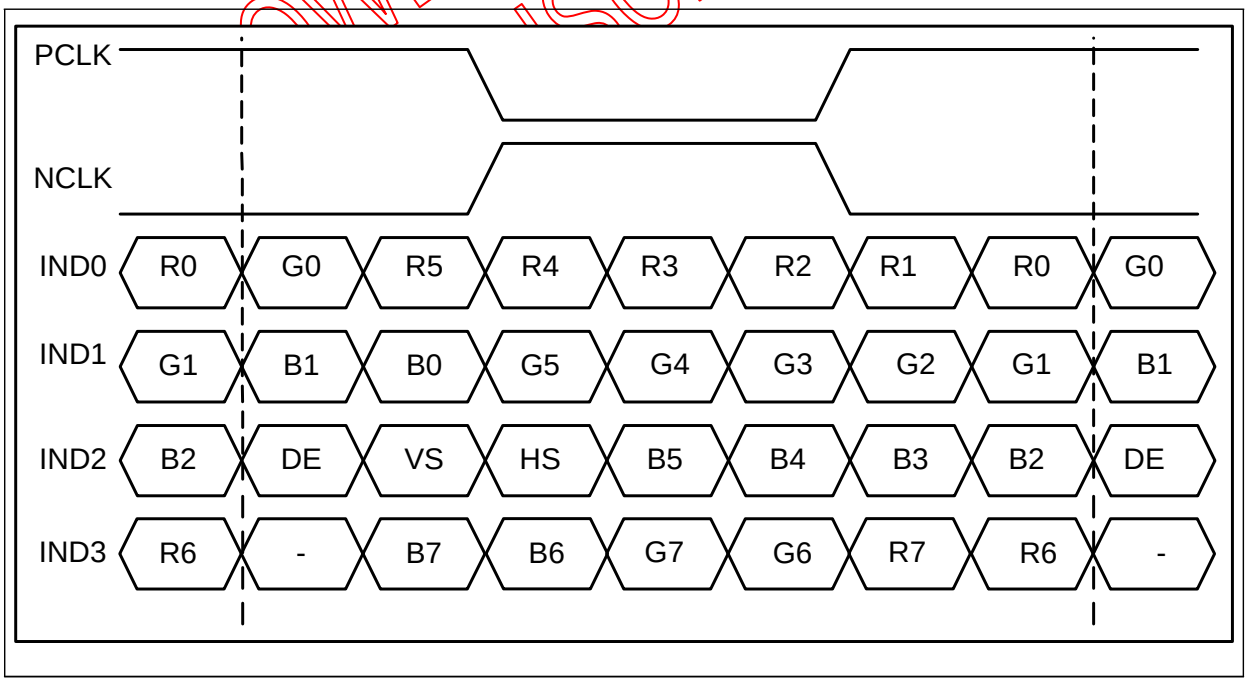
6.7.1. 6-bit LVDS input(HSD="H")



6-bit LVDS Input Timing chart

POWER CONTROL DISCLOSURE

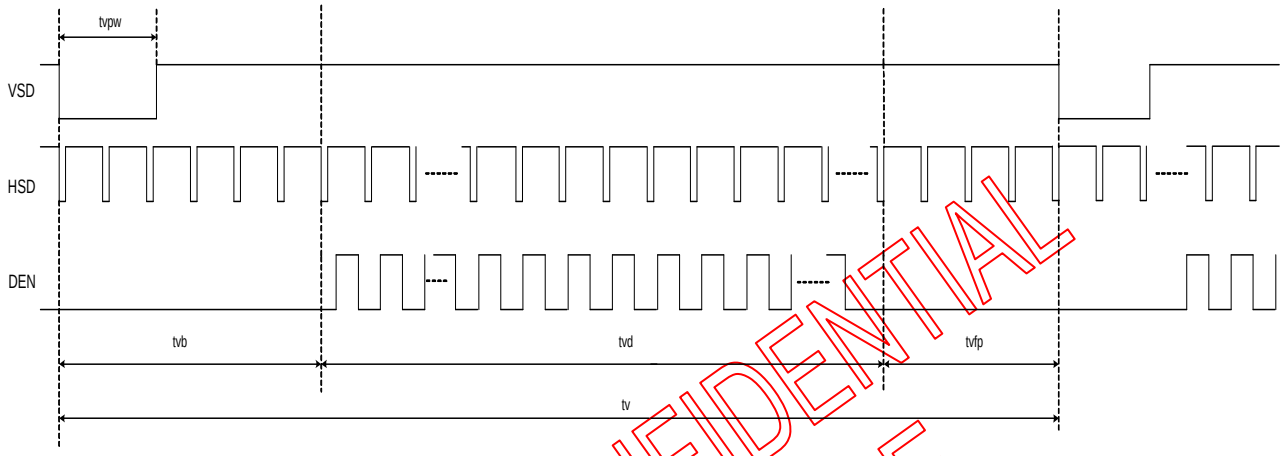
6.7.2. 8-bit LVDS input(HSD="L")



8-bit LVDS Input Timing chart

6.8. Data Input Format for TTL

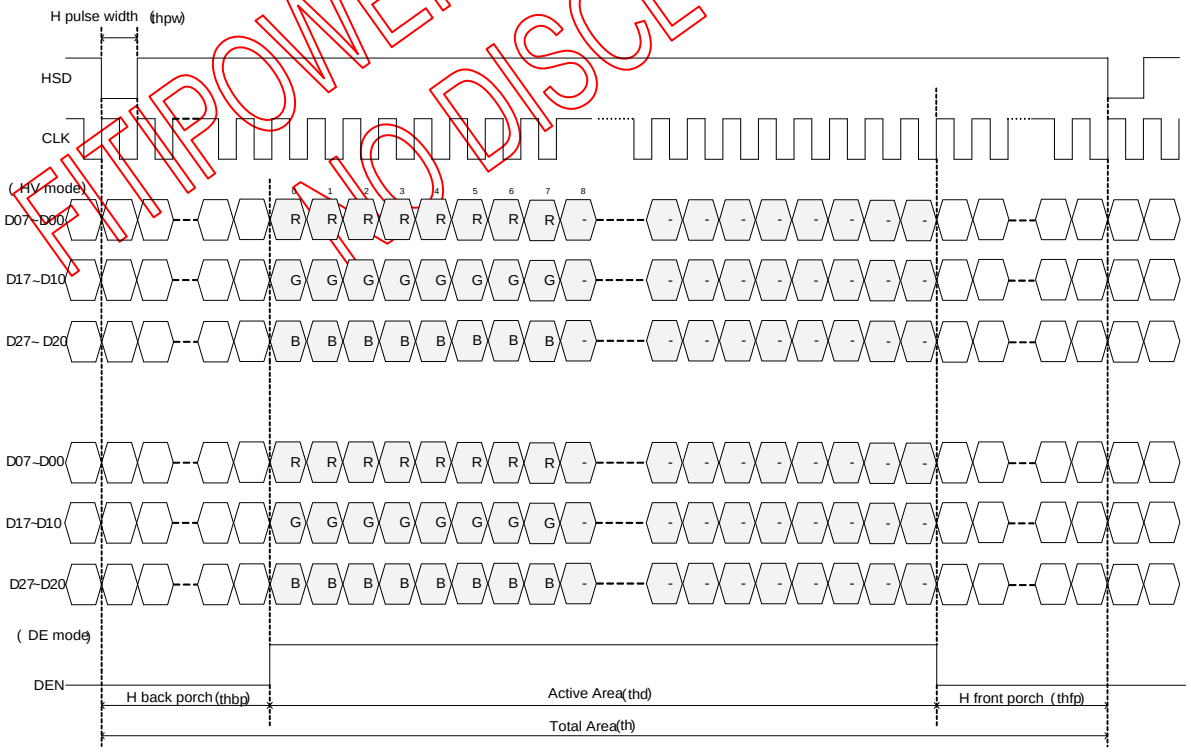
6.8.1. Vertical input timing



Vertical input timing

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.8.2. Horizontal input timing



Horizontal input timing

6.9. Parallel RGB Timing Characteristic

6.9.1. For 1024RGB x 768 panel

DE mode

DE mode

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
DCLK frequency @Frame rate=60hz	fclk	52	65	71	Mhz
Horizontal display area	thd		1024		DCLK
HSYNC period time	th	1114	1344	1400	DCLK
HSYNC blanking	thbp+thfp	90	320	376	DCLK
Vertical display area	tvd		768		H
VSYNC period time	tv	778	806	845	H
VSYNC blanking	tvb+tvfp	10	38	77	H

HV mode(1)

HV mode
Horizontal input timing

Parameter		Symbol	Value			Unit
Horizontal display area		thd		1024		DCLK
DCLK frequency@ Frame rate=60hz		fclk	Min.	Typ.	Max.	
			57	65	70.5	Mhz
1 Horizontal Line		th	1200	1344	1400	DCLK
HSYNC pulse width	Min.	thpw		1		
	Typ.			—		
	Max.			140		
HSYNC back porch		thbp	160	160	160	
HSYNC front porch		thfp	16	160	216	

HV mode(2)

Vertical input timing

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Vertical display area	tvd		768		H
VSYNC period time	tv	792	806	840	H
VSYNC pulse width	tvpw	1	—	20	H
VSYNC back porch	tvb	23	23	23	H
VSYNC front porch	tvfp	1	15	49	H

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.9.2. For 1024RGB x 600 panel

DE mode

DE mode					
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
DCLK frequency @Frame rate=60hz	fclk	40.8	51.2	67.2	Mhz
Horizontal display area	thd		1024		DCLK
HSYNC period time	th	1114	1344	1400	DCLK
HSYNC blanking	thb+thfp	90	320	376	DCLK
Vertical display area	tvd		600		H
VSYNC period time	tv	610	635	800	H
VSYNC blanking	tvb+tvfp	10	35	200	H

HV mode(1)

HV mode Horizontal input timing						
Parameter		Symbol	Value			Unit
Horizontal display area		thd	1024			DCLK
DCLK frequency@ Frame rate=60hz		fclk	Min.	Typ.	Max.	
			44.9	51.2	63	Mhz
1 Horizontal Line		th	1200	1344	1400	DCLK
HSYNC pulse width	Min.	thpw	1			
	Typ.		–			
	Max.		140			
HSYNC back porch		thbp	160	160	160	
HSYNC front porch		thfp	16	160	216	

HV mode(2)

Vertical input timing					
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Vertical display area	tvd		600		H
VSYNC period time	tv	624	635	750	H
VSYNC pulse width	tvpw	1	–	20	H
VSYNC back porch	tvb	23	23	23	H
VSYNC front porch	tvfp	1	12	127	H

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.9.3. For 800RGB x 600 panel

DE mode

DE mode					
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
DCLK frequency @Frame rate=60hz	fclk	32.6	39.6	62.4	Mhz
Horizontal display area	thd		800		DCLK
HSYNC period time	th	890	1000	1300	DCLK
HSYNC blanking	thb+thfp	90	200	500	DCLK
Vertical display area	tvd		600		H
VSYNC period time	tv	610	660	800	H
VSYNC blanking	tvb+tvfp	10	60	200	H

HV mode(1)

HV mode Horizontal input timing						
Parameter		Symbol	Value			Unit
Horizontal display area		thd	800			DCLK
DCLK frequency@ Frame rate=60hz		fclk	Min.	Typ.	Max.	
			34.5	39.6	50.4	Mhz
1 Horizontal Line		th	900	1000	1200	DCLK
HSYNC pulse width	Min.	thpw	1			
	Typ.		–			
	Max.		40			
HSYNC back porch		thbp	88	88	88	
HSYNC front porch		thfp	12	112	312	

HV mode(2)

Vertical input timing					
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Vertical display area	tvd		600		H
VSYNC period time	tv	640	660	700	H
VSYNC pulse width	tvpw	1	–	20	H
VSYNC back porch	tvb	39	39	39	H
VSYNC front porch	tvfp	1	21	61	H

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

6.9.4. For 800RGB x 480 panel

DE mode

DE mode					
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
DCLK frequency @Frame rate=60hz	fclk	26.2	29.2	54.6	Mhz
Horizontal display area	thd		800		DCLK
HSYNC period time	th	890	928	1300	DCLK
HSYNC blanking	thb+thfp	90	128	500	DCLK
Vertical display area	tvd		480		H
VSYNC period time	tv	490	525	700	H
VSYNC blanking	tvb+tvfp	10	45	220	H

HV mode(1)

HV mode Horizontal input timing						
Parameter		Symbol	Value			Unit
Horizontal display area		thd	800			DCLK
DCLK frequency@ Frame rate=60hz		fclk	Min.	Typ.	Max.	
			27.7	29.2	39.6	Mhz
1 Horizontal Line		th	900	928	1100	DCLK
HSYNC pulse width	Min.	thpw	1			DCLK
	Typ.		—			
	Max.		40			
HSYNC back porch		thbp	88	88	88	
HSYNC front porch		thfp	12	40	212	

HV mode(2)

Vertical input timing					
Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Vertical display area	tvd		480		H
VSYNC period time	tv	513	525	600	H
VSYNC pulse width	tvpw	1	—	3	H
VSYNC back porch	tvb	32	32	32	H
VSYNC front porch	tvfp	1	13	88	H

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

7. ELECTRICAL SPECIFICATION

7.1. Absolute Maximum Ratings

VOLTAGE (TA = 25°C, GND = AGND = GND_LVDS = 0V)

	Min.	Max.	Unit
Digital Supply Voltage, VDD	-0.5	+5.0	V
Analog Supply Voltage, AVDD, V1~V14	-0.5	+15.0	V

TEMPERATURE

	Min.	Max.	Unit
Operating temperature	-30	+85	°C
Storage temperature	-55	+125	°C

Comments

Stresses above those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. These are stress ratings only. Functional operation of this device at these or any other conditions above those indicated in the operational sections of this specification is not implied and exposed to absolute maximum rating conditions for extended periods may affect device reliability.

7.2. Recommended Operating Range

Recommended Operating Range (TA = -30 to 85°C, GND = AGND = GND_LVDS = 0V)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Digital supply voltage	VDD	2.3	3.3	3.6	V
Analog supply voltage	AVDD	8	-	13.5	V
Digital input voltage	VIN	0	-	VDD	V

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

7.3. DC Electrical Characteristics

DC Characteristics

(TA = -30 to 85°C, VDD = 2.3 to 3.6V, AVDD = 8 to 13.5V, GND = AGND = GND_LVDS = 0V)

7.3.1. TTL mode

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Low level input voltage	Vil	For the digital circuit	0	-	0.3×VDD	V
High level input voltage	Vih	For the digital circuit	0.7×VDD	-	VDD	V
Input leakage current	Ii	For the digital circuit	-	-	±1	μA
High level output voltage	Voh	Ioh= -400 μA	VDD-0.4	-	-	V
Low level output voltage	Vol	Iol= +400 μA	-	-	GND+0.4	V
Pull low/high resistor	Ri	For the digital input pin @ VDD=3.3V	200K	250K	300K	ohm
Digital Operation current	Idd	Fclk=65 MHz, FLD=50KHz, VDD=3.3V	-	15	25	mA
Digital Stand-by current	Ist1	Clock and all functions are stopped	-	10	50	μA
Analog Operating Current	Idda	No load, Fclk=65MHz, FLD=50KHz @ AVDD=10V,V1=8V, V14=0.4V	-	10	12	mA
Analog Stand-by current	Ist2	No load, Clock and all functions are Stopped	-	10	50	μA
Input level of V1 ~ V7	Vref1	Gamma correction voltage input	0.4*AVDD	-	AVDD-0.1	V
Input level of V8 ~ V14	Vref2	Gamma correction voltage input	0.1	-	0.6*AVDD	V
Output Voltage deviation	Vod1	Vo = AVSS+0.1V ~ AVSS+0.5V and Vo = AVDD-0.5V ~ AVDD-0.1V	-	±20	±35	mV
Output Voltage deviation	Vod2	Vo = AVSS+0.5V ~ AVDD-0.5V	-	±15	±20	mV
Output Voltage Offset between Chips	Voc	Vo = AVSS+0.5V ~ AVDD-0.5V	-	-	±20	mV
Dynamic Range of Output	Vdr	SO1 ~ SO1536	0.1	-	AVDD-0.1	V
Sinking Current of Outputs	IOLy	SO1 ~ SO1536; Vo=0.1V v.s 1.0V , AVDD=13.5V	80	-	-	uA
Driving Current of Outputs	IOHy	SO1 ~ SO1536; Vo=13.4V v.s 12.5V , AVDD=13.5V	80	-	-	uA
Resistance of Gamma Table	Rg	Rn: Internal gamma resistor	0.7*Rn	1.0*Rn	1.3*Rn	ohm

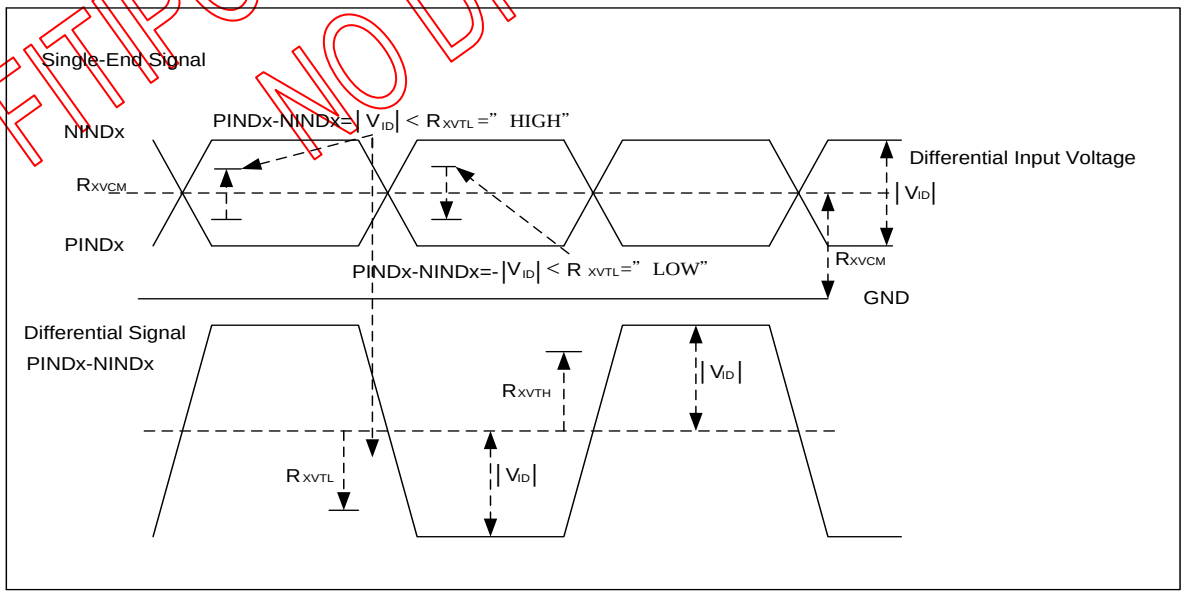
FITIPOWER CONFIDENTIAL
NO DISCLOSURE

7.3.2. LVDS mode(Receiver Differential :PIND0~PIND3,NIND0~NIND3,PINC,NINC)

LVDS DC characteristic

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Differential input high threshold voltage	R_{XVTH}	+0.1			V	R_{XVCM}=1.2V
Differential input low threshold voltage	R_{XVTL}			-0.1	V	
Input voltage range(single-end)	R_{XVIN}	0		2.4	V	
Differential input common mode voltage	R_{XVCM}	$\|V_{ID}\|/2$		2.4 -$\|V_{ID}\|/2$	V	
Differential input voltage	$\|V_{ID}\|$	0.2	0.2	0.6	uA	
Differential input leakage current	R_{XVTH}	-10		+10	V	
LVDS Digital Operating Current	Iddlvsd	-	15	30	mA	Fclk=65Mhz, VDD=3.3V
LVDS Digital Standby Current	Istlvds	-	10	50	uA	Clock & all functions are stop

FITIPOWER CONFIDENTIAL
NO DISCLOSURE



LVDS DC Characteristic

7.3.3. Power

Power

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
VCOM buffer input voltage	VCOMI	1	_	AVDD	V	
VCOM buffer output voltage	VCOMO	VCOMI-0.2	VCOMI	VCOMI+0.2	V	
VCOM buffer output current	IVCOM	_	_	10	mA	VCOMO= 5V vs 4.9V

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

7.4. AC Electrical Characteristics

(TA = -30 to 85°C, VDD = 2.3 to 3.6V, AVDD = 8 to 13.5V, GND = AGND = 0V)

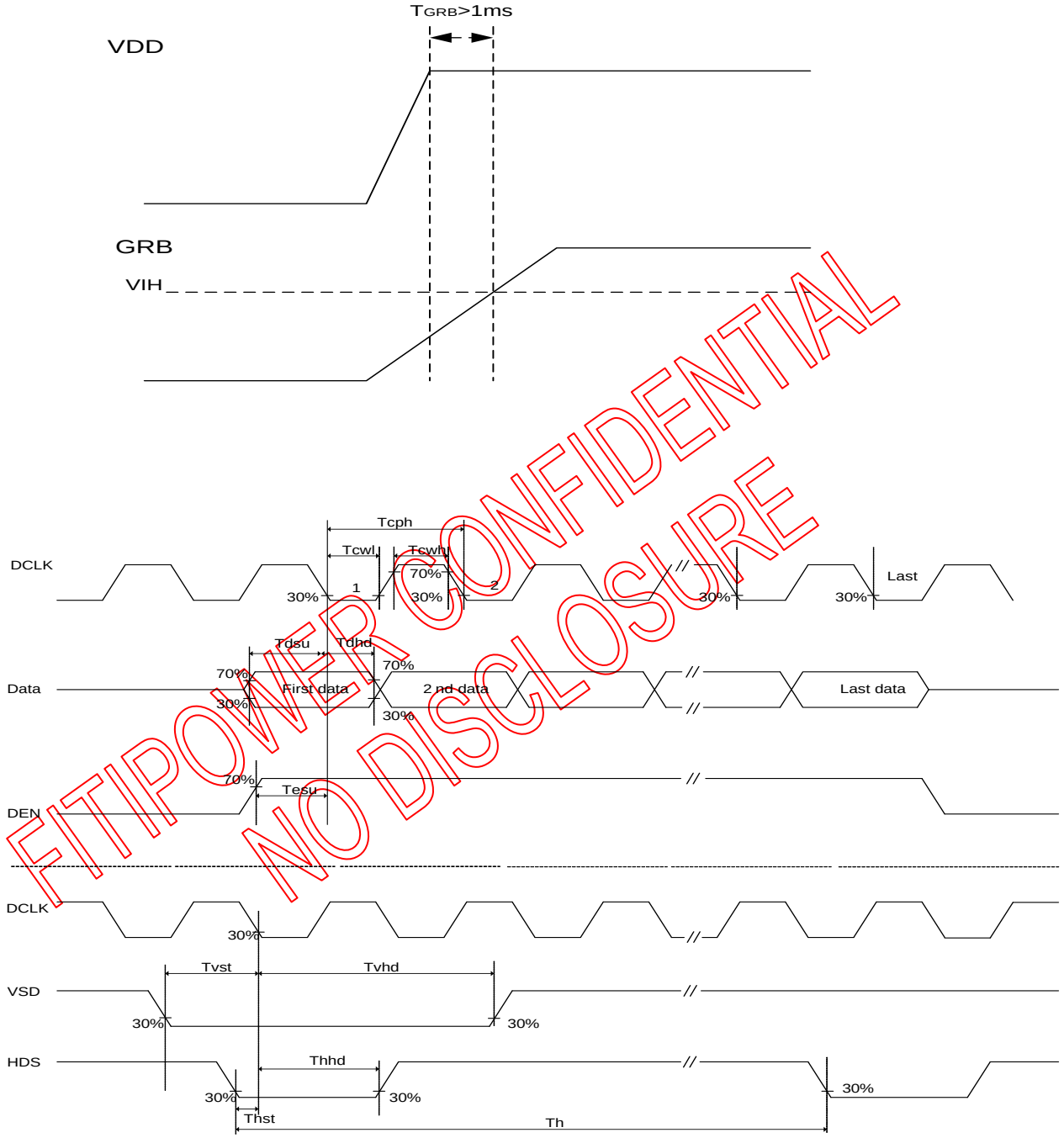
TTL mode

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
VDD Power On Slew rate	TPOR	From 0V to 90% VDD	1	-	20	ms
RST pulse width	TRST	DCLK = 65MHz	50	-	-	us
DCLK cycle time	Tcph	-	14	-	-	ns
DCLK pulse duty	Tcwh	-	40	50	60	%
VSD setup time	Tvst	-	5	-	-	ns
VSD hold time	Tvhd	-	5	-	-	ns
HSD setup time	Thst	-	5	-	-	ns
HSD hold time	Thhd	-	5	-	-	ns
Data set-up time	Tdsu	D0[7:0], D1[7:0], D2[7:0] to DCLK	5	-	-	ns
Data hold time	Tdhd	D0[7:0], D1[7:0], D2[7:0] to DCLK	5	-	-	ns
DE setup time	Tesu	-	5	-	-	ns
DE hold time	Tehd	-	5	-	-	ns
Output stable time	Tsst	Dual gate	-	-	3	us

LVDS mode

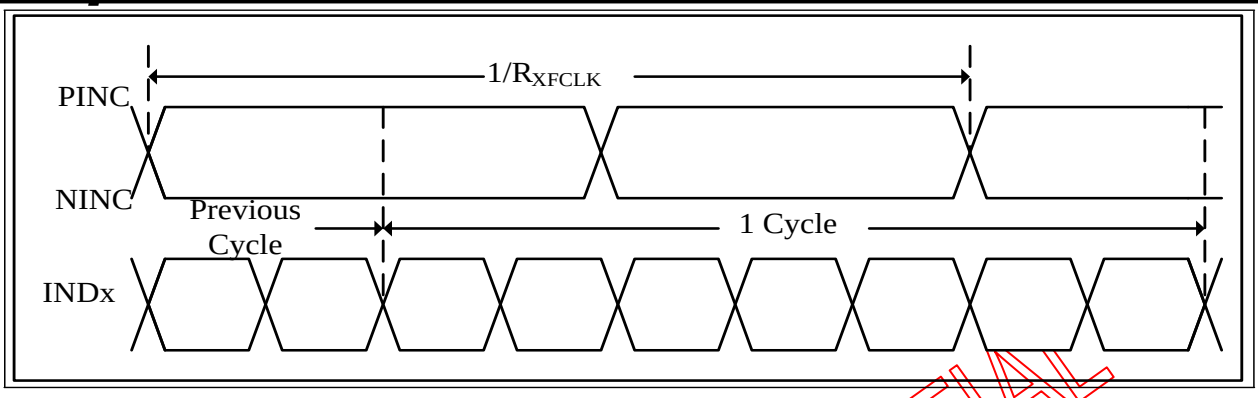
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Clock Frequency	R_{xFCLK}		20	-	71	MHz
Input data skew margin	T_{RSKM}	|V_{ID}|=400mV R_{xVCM}=1.2V R_{xFCLK}=71MHz	-	-	500	ps
Clock High Time	T_{LVCH}			4/(7* R_{xFCLK})		ns ns
Clock Low Time	T_{LVCL}			3/(7* R_{xFCLK})		ns
PLL wake-up-time	T_{enPLL}				150	us

FITIPOWER CONFIDENTIAL NO DISCLOSURE

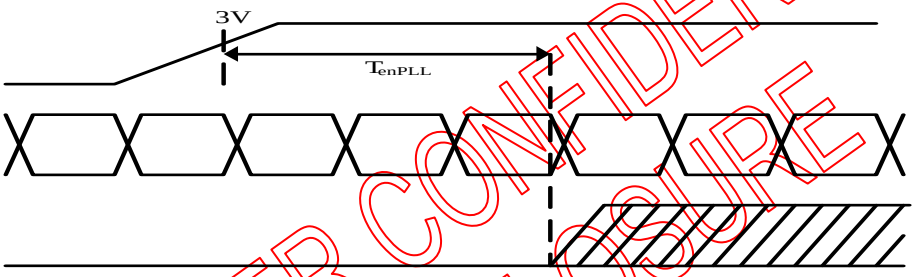


FITIPOWER CONFIDENTIAL
NO DISCLOSURE

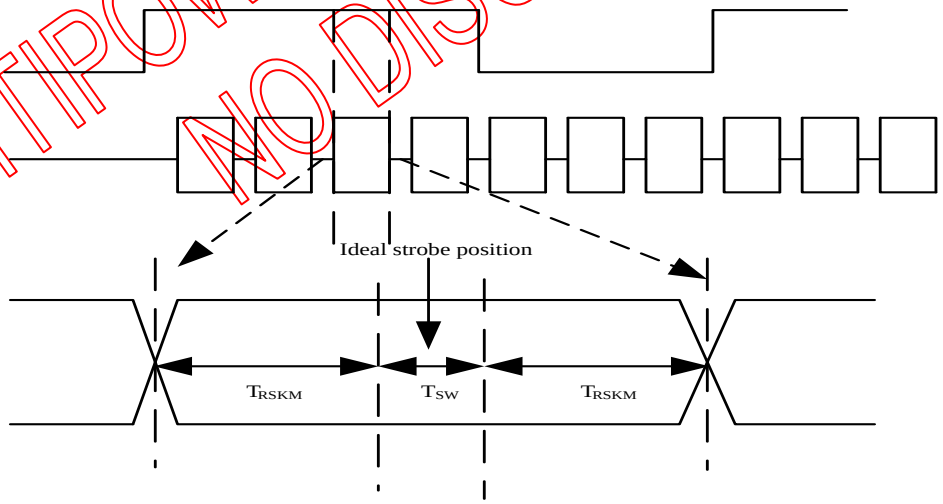
Parallel Input Clock and Data timing



LVDS timing(1)



LVDS timing(2)



TSW :Receiver strobe position
TRSKM:Receiver strobe margin

LVDS timing(3)

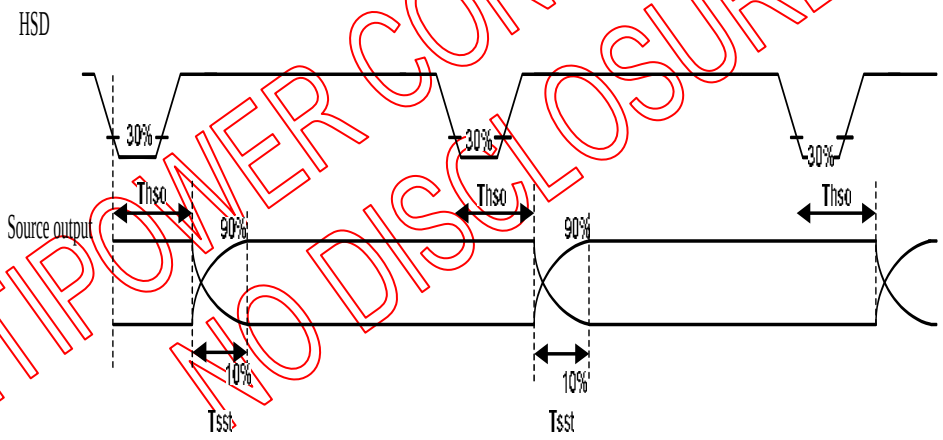
FITIPOWER CONFIDENTIAL
NO DISCLOSURE

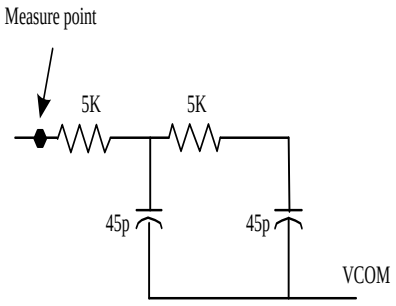
7.5. Output Timing Table

Output Timing Table

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
DCLK frequency	Fclk	-	65	71	MHz	VDD =2.3~3.6V
DCLK cycle time	Tclk	14.1	15.4		ns	
DCLK pulse duty	Tcwh	40	50	60	%	Tclk
Time from HSD to Source Output	Thso	-	64	-	DCLK	
Time from HSD to LD	Thld	-	64	-	DCLK	
Time from HSD to STV	Thstv	-	2	-	DCLK	
Time from HSD to CKV	Thckv	-	20	-	DCLK	
Time from HSD to OEV	Thoev	-	4	-	DCLK	
LD pulse width	Twld	-	10	-	DCLK	
CKV pulse width	Twckv	-	66	-	DCLK	
OEV pulse width	Twoev	-	74	-	DCLK	

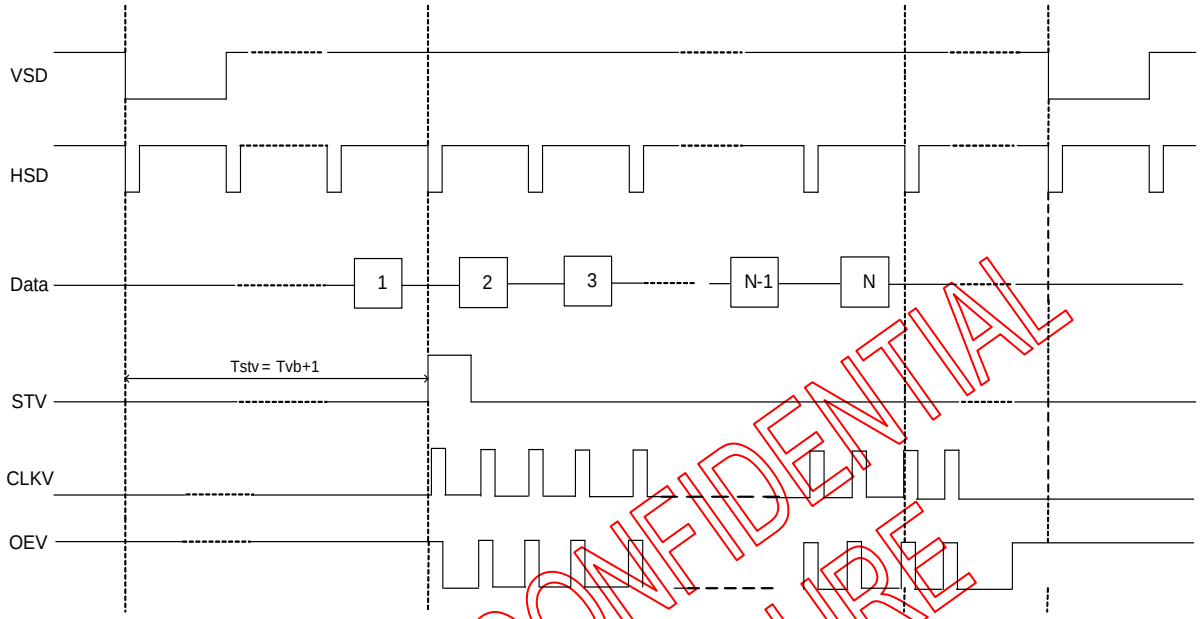
FITIPOWER CONFIDENTIAL
NO DISCLOSURE





Source Output Timing

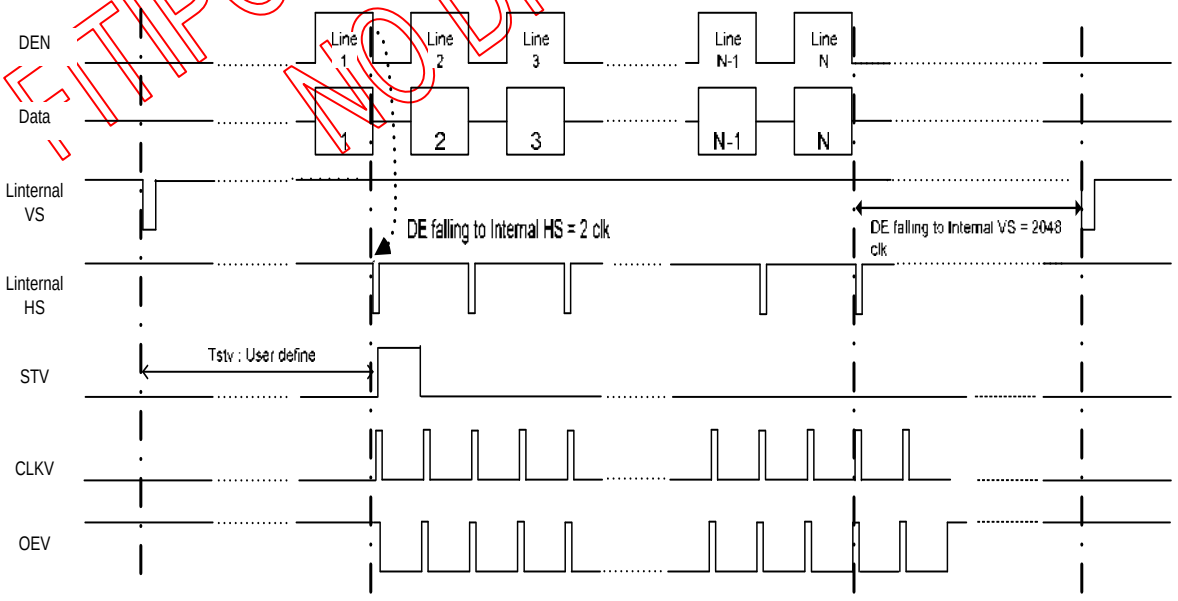
7.5.1. Vertical Timing Diagram HV mode



Vertical Timing Diagram HV mode

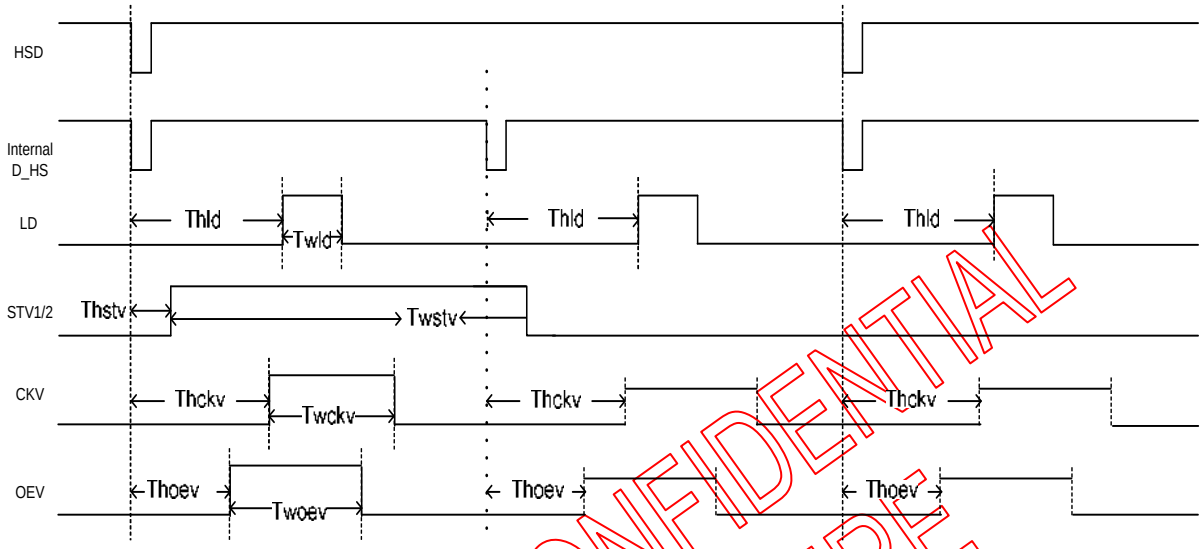
FITIPOWER CONFIDENTIAL
NO DISCLOSURE

7.5.2. Vertical Timing Diagram DE mode



Vertical Timing Diagram DE mode

7.5.3. Gate output timing diagram



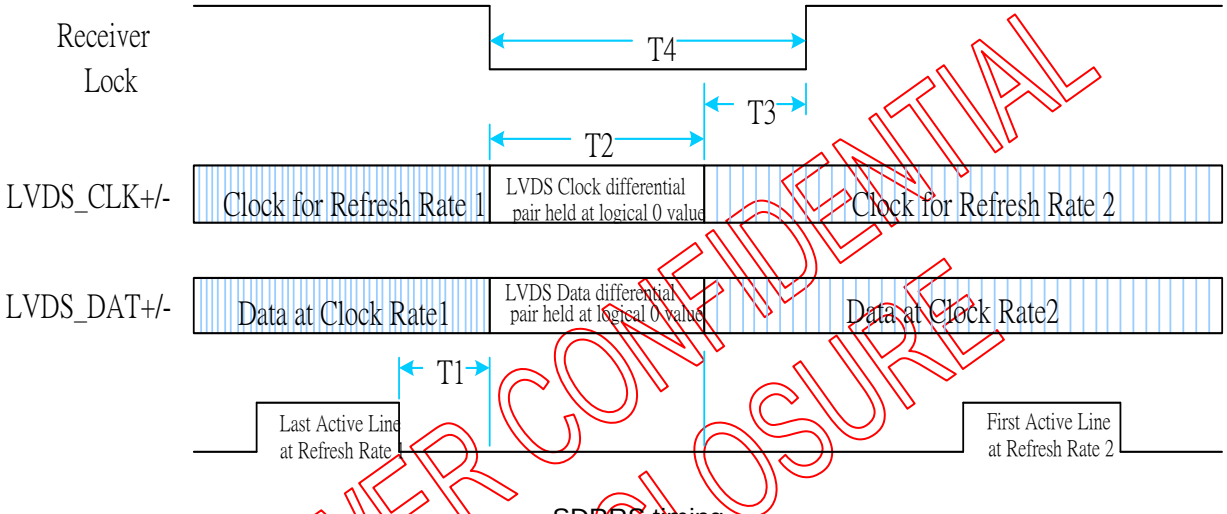
Gate output timing diagram

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

8. SDRRS TIMING DIAGRAM

SDRRS(seamless display refresh rate switching)

When Showing the still picture.it is accept to refresh rate from 60Hz to low refresh rate (for example 40Hz).The purpose is mainly for power saving. INTEL defined a timing chart switch between different refresh rate.Following this timing chart,the switch between different refresh rates is seamless for end user.

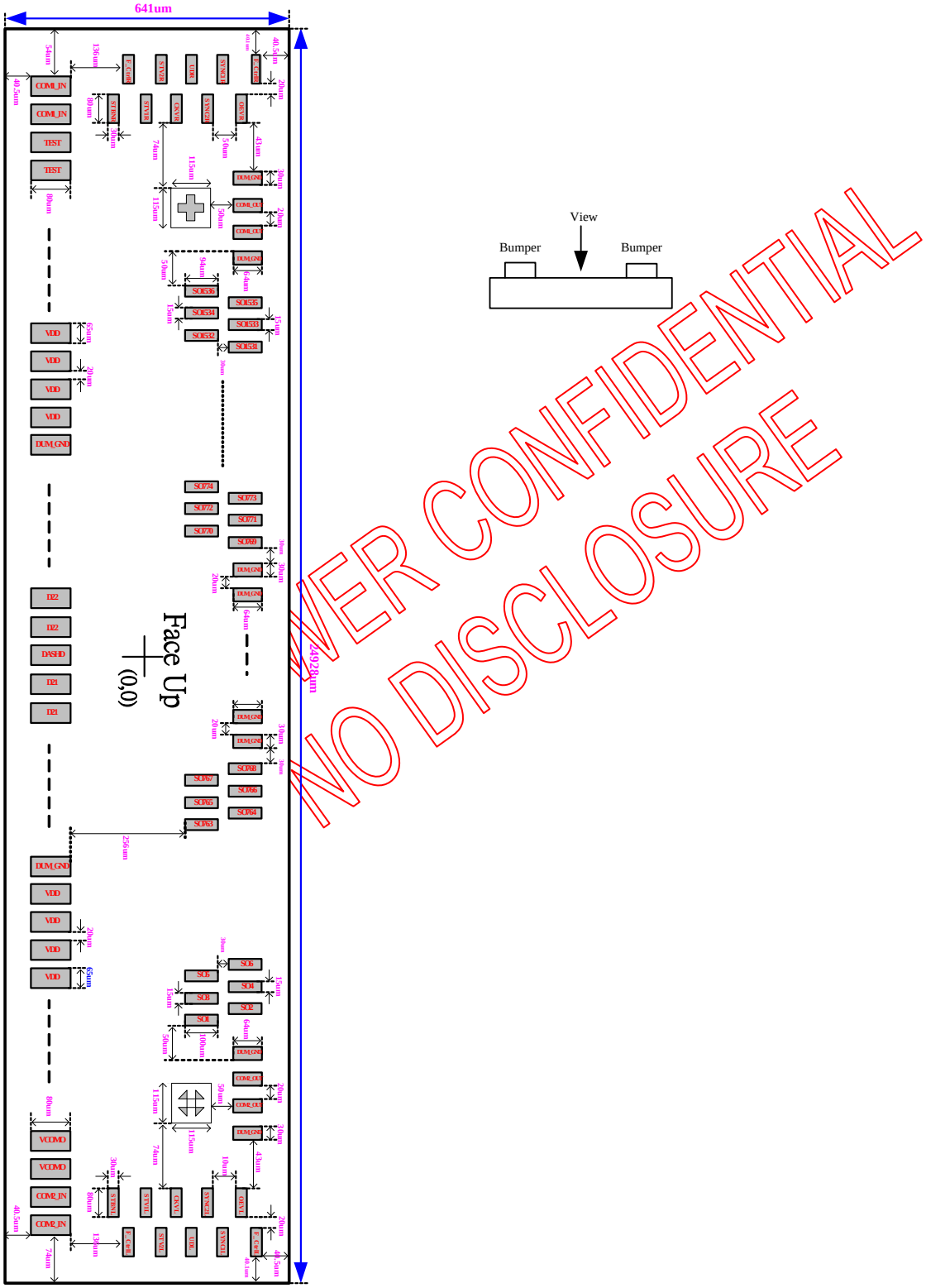


SDRRS timing

T1-Min delay from start of vertical blank to start of timing change:2 lines(HSYNC periods)
T2-Max delay for clock to transition to new frequency:100us
T3-Max receiver lock delay from stable clock: Display specific
T4-Max period during which panel maintains display(T2+T3): Display specific

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

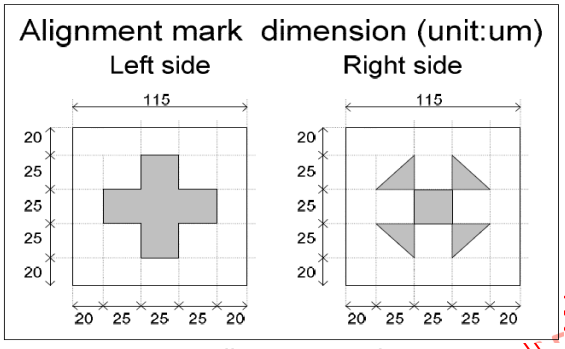
9. CHIP OUTLINE DIMENSIONS



VER CONFIDENTIAL
NO DISCLOSURE

Chip Outline Dimensions

9.1. Alignment Mark



Alignment Mark

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

9.2. Pad Coordinate (pad shift)

Pad Num	Pad name	X	Y	W	H
1	COM1_IN	-12377.5	-239.985	65	80
2	COM1_IN	-12292.5	-239.985	65	80
3	TP[1]	-12207.5	-239.985	65	80
4	TP[2]	-12122.5	-239.985	65	80
5	TP[3]	-12037.5	-239.985	65	80
6	TP[4]	-11952.5	-239.985	65	80
7	SHIELDING	-11867.5	-239.985	65	80
8	AGND	-11782.5	-239.985	65	80
9	AGND	-11697.5	-239.985	65	80
10	AGND	-11612.5	-239.985	65	80
11	AGND	-11527.5	-239.985	65	80
12	SHIELDING	-11442.5	-239.985	65	80
13	AVDD	-11357.5	-239.985	65	80
14	AVDD	-11272.5	-239.985	65	80
15	AVDD	-11187.5	-239.985	65	80
16	AVDD	-11102.5	-239.985	65	80
17	SHIELDING	-11017.5	-239.985	65	80
18	GND	-10932.5	-239.985	65	80
19	GND	-10847.5	-239.985	65	80
20	GND	-10762.5	-239.985	65	80
21	GND	-10677.5	-239.985	65	80
22	SHIELDING	-10592.5	-239.985	65	80
23	VDD	-10507.5	-239.985	65	80
24	VDD	-10422.5	-239.985	65	80
25	VDD	-10337.5	-239.985	65	80
26	VDD	-10252.5	-239.985	65	80
27	SHIELDING	-10167.5	-239.985	65	80
28	TP[5]	-10082.5	-239.985	65	80
29	TP[6]	-9997.5	-239.985	65	80
30	TP[7]	-9912.5	-239.985	65	80
31	TP[8]	-9827.5	-239.985	65	80
32	TP[9]	-9742.5	-239.985	65	80
33	TP[10]	-9657.5	-239.985	65	80
34	TP[11]	-9572.5	-239.985	65	80
35	TP[12]	-9487.5	-239.985	65	80
36	TP[13]	-9402.5	-239.985	65	80
37	TP[14]	-9317.5	-239.985	65	80
38	SHIELDING	-9232.5	-239.985	65	80
39	TP[15]	-9147.5	-239.985	65	80
40	TP[16]	-9062.5	-239.985	65	80
41	NBW	-8977.5	-239.985	65	80
42	NBW	-8892.5	-239.985	65	80
43	PINCTL	-8807.5	-239.985	65	80
44	PINCTL	-8722.5	-239.985	65	80
45	SHIELDING	-8637.5	-239.985	65	80
46	TP[17]	-8552.5	-239.985	65	80
47	TP[18]	-8467.5	-239.985	65	80
48	SHIELDING	-8382.5	-239.985	65	80
49	DITHER	-8297.5	-239.985	65	80
50	DITHER	-8212.5	-239.985	65	80
51	HFRC	-8127.5	-239.985	65	80
52	HFRC	-8042.5	-239.985	65	80
53	TP[19]	-7957.5	-239.985	65	80
54	TP[20]	-7872.5	-239.985	65	80
55	FRAME	-7787.5	-239.985	65	80
56	FRAME	-7702.5	-239.985	65	80
57	SEL[0]	-7617.5	-239.985	65	80
58	SEL[0]	-7532.5	-239.985	65	80
59	SEL[1]	-7447.5	-239.985	65	80
60	SEL[1]	-7362.5	-239.985	65	80

Pad Num	Pad name	X	Y	W	H
61	CSB	-7277.5	-239.985	65	80
62	CSB	-7192.5	-239.985	65	80
63	SHIELDING	-7107.5	-239.985	65	80
64	SDA	-7022.5	-239.985	65	80
65	SDA	-6937.5	-239.985	65	80
66	SHIELDING	-6852.5	-239.985	65	80
67	SCL	-6767.5	-239.985	65	80
68	SCL	-6682.5	-239.985	65	80
69	SHIELDING	-6597.5	-239.985	65	80
70	VDD	-6512.5	-239.985	65	80
71	VDD	-6427.5	-239.985	65	80
72	VDD	-6342.5	-239.985	65	80
73	VDD	-6257.5	-239.985	65	80
74	SHIELDING	-6172.5	-239.985	65	80
75	GND	-6087.5	-239.985	65	80
76	GND	-6002.5	-239.985	65	80
77	GND	-5917.5	-239.985	65	80
78	GND	-5832.5	-239.985	65	80
79	SHIELDING	-5747.5	-239.985	65	80
80	AVDD	-5662.5	-239.985	65	80
81	AVDD	-5577.5	-239.985	65	80
82	AVDD	-5492.5	-239.985	65	80
83	AVDD	-5407.5	-239.985	65	80
84	SHIELDING	-5322.5	-239.985	65	80
85	AGND	-5237.5	-239.985	65	80
86	AGND	-5152.5	-239.985	65	80
87	AGND	-5067.5	-239.985	65	80
88	AGND	-4982.5	-239.985	65	80
89	SHIELDING	-4897.5	-239.985	65	80
90	V1	-4812.5	-239.985	65	80
91	V1	-4727.5	-239.985	65	80
92	V2	-4642.5	-239.985	65	80
93	V2	-4557.5	-239.985	65	80
94	V3	-4472.5	-239.985	65	80
95	V3	-4387.5	-239.985	65	80
96	V4	-4302.5	-239.985	65	80
97	V4	-4217.5	-239.985	65	80
98	V5	-4132.5	-239.985	65	80
99	V5	-4047.5	-239.985	65	80
100	V6	-3962.5	-239.985	65	80
101	V6	-3877.5	-239.985	65	80
102	V7	-3792.5	-239.985	65	80
103	V7	-3707.5	-239.985	65	80
104	GAMH	-3622.5	-239.985	65	80
105	GAMH	-3537.5	-239.985	65	80
106	SHIELDING	-3452.5	-239.985	65	80
107	DASHD	-3367.5	-239.985	65	80
108	VSD	-3282.5	-239.985	65	80
109	DASHD	-3197.5	-239.985	65	80
110	HSD	-3112.5	-239.985	65	80
111	DASHD	-3027.5	-239.985	65	80
112	DEN	-2942.5	-239.985	65	80
113	GND_LVDS	-2857.5	-239.985	65	80
114	GND_LVDS	-2772.5	-239.985	65	80
115	GND_LVDS	-2687.5	-239.985	65	80
116	GND_LVDS	-2602.5	-239.985	65	80
117	D27	-2517.5	-239.985	65	80
118	D26	-2432.5	-239.985	65	80
119	DASHD	-2347.5	-239.985	65	80
120	D25	-2262.5	-239.985	65	80

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
121	D24	-2177.5	-239.985	65	80
122	DASHD	-2092.5	-239.985	65	80
123	D23	-2007.5	-239.985	65	80
124	D22	-1922.5	-239.985	65	80
125	DASHD	-1837.5	-239.985	65	80
126	D21	-1752.5	-239.985	65	80
127	D20	-1667.5	-239.985	65	80
128	DASHD	-1582.5	-239.985	65	80
129	DCLK	-1497.5	-239.985	65	80
130	NINC	-1412.5	-239.985	65	80
131	DASHD	-1327.5	-239.985	65	80
132	VDD_LVDS	-1242.5	-239.985	65	80
133	VDD_LVDS	-1157.5	-239.985	65	80
134	VDD_LVDS	-1072.5	-239.985	65	80
135	VDD_LVDS	-987.5	-239.985	65	80
136	REV	-902.5	-239.985	65	80
137	DASHD	-817.5	-239.985	65	80
138	D17	-732.5	-239.985	65	80
139	D16	-647.5	-239.985	65	80
140	DASHD	-562.5	-239.985	65	80
141	D15	-477.5	-239.985	65	80
142	D14	-392.5	-239.985	65	80
143	DASHD	-307.5	-239.985	65	80
144	D13	-222.5	-239.985	65	80
145	D12	-137.5	-239.985	65	80
146	DASHD	-52.5	-239.985	65	80
147	D11	32.5	-239.985	65	80
148	D10	117.5	-239.985	65	80
149	DASHD	202.5	-239.985	65	80
150	D07	287.5	-239.985	65	80
151	D06	372.5	-239.985	65	80
152	DASHD	457.5	-239.985	65	80
153	D05	542.5	-239.985	65	80
154	D04	627.5	-239.985	65	80
155	DASHD	712.5	-239.985	65	80
156	D03	797.5	-239.985	65	80
157	D02	882.5	-239.985	65	80
158	DASHD	967.5	-239.985	65	80
159	D01	1052.5	-239.985	65	80
160	D00	1137.5	-239.985	65	80
161	DASHD	1222.5	-239.985	65	80
162	SHIELDING	1307.5	-239.985	65	80
163	GAML	1392.5	-239.985	65	80
164	GAML	1477.5	-239.985	65	80
165	V8	1562.5	-239.985	65	80
166	V8	1647.5	-239.985	65	80
167	V9	1732.5	-239.985	65	80
168	V9	1817.5	-239.985	65	80
169	V10	1902.5	-239.985	65	80
170	V10	1987.5	-239.985	65	80
171	V11	2072.5	-239.985	65	80
172	V11	2157.5	-239.985	65	80
173	V12	2242.5	-239.985	65	80
174	V12	2327.5	-239.985	65	80
175	V13	2412.5	-239.985	65	80
176	V13	2497.5	-239.985	65	80
177	V14	2582.5	-239.985	65	80
178	V14	2667.5	-239.985	65	80
179	SHIELDING	2752.5	-239.985	65	80
180	AGND	2837.5	-239.985	65	80

Pad Num	Pad name	X	Y	W	H
181	AGND	2922.5	-239.985	65	80
182	AGND	3007.5	-239.985	65	80
183	AGND	3092.5	-239.985	65	80
184	SHIELDING	3177.5	-239.985	65	80
185	AVDD	3262.5	-239.985	65	80
186	AVDD	3347.5	-239.985	65	80
187	AVDD	3432.5	-239.985	65	80
188	AVDD	3517.5	-239.985	65	80
189	SHIELDING	3602.5	-239.985	65	80
190	GND	3687.5	-239.985	65	80
191	GND	3772.5	-239.985	65	80
192	GND	3857.5	-239.985	65	80
193	GND	3942.5	-239.985	65	80
194	SHIELDING	4027.5	-239.985	65	80
195	VDD	4112.5	-239.985	65	80
196	VDD	4197.5	-239.985	65	80
197	VDD	4282.5	-239.985	65	80
198	VDD	4367.5	-239.985	65	80
199	SHIELDING	4452.5	-239.985	65	80
200	DUAL	4537.5	-239.985	65	80
201	DUAL	4622.5	-239.985	65	80
202	MASL	4707.5	-239.985	65	80
203	MASL	4792.5	-239.985	65	80
204	MASLOC	4877.5	-239.985	65	80
205	MASLOC	4962.5	-239.985	65	80
206	TP[21]	5047.5	-239.985	65	80
207	TP[22]	5132.5	-239.985	65	80
208	TP[23]	5217.5	-239.985	65	80
209	TP[24]	5302.5	-239.985	65	80
210	OPDRV	5387.5	-239.985	65	80
211	OPDRV	5472.5	-239.985	65	80
212	MODE	5557.5	-239.985	65	80
213	MODE	5642.5	-239.985	65	80
214	IFSEL	5727.5	-239.985	65	80
215	IFSEL	5812.5	-239.985	65	80
216	BIST	5897.5	-239.985	65	80
217	BIST	5982.5	-239.985	65	80
218	RES[0]	6067.5	-239.985	65	80
219	RES[0]	6152.5	-239.985	65	80
220	RES[1]	6237.5	-239.985	65	80
221	RES[1]	6322.5	-239.985	65	80
222	DCLKPOL	6407.5	-239.985	65	80
223	DCLKPOL	6492.5	-239.985	65	80
224	STBYB	6577.5	-239.985	65	80
225	STBYB	6662.5	-239.985	65	80
226	GRB	6747.5	-239.985	65	80
227	GRB	6832.5	-239.985	65	80
228	SHLR	6917.5	-239.985	65	80
229	SHLR	7002.5	-239.985	65	80
230	UPDN	7087.5	-239.985	65	80
231	UPDN	7172.5	-239.985	65	80
232	SHIELDING	7257.5	-239.985	65	80
233	TP[25]	7342.5	-239.985	65	80
234	TP[26]	7427.5	-239.985	65	80
235	TP[27]	7512.5	-239.985	65	80
236	TP[28]	7597.5	-239.985	65	80
237	TP[29]	7682.5	-239.985	65	80
238	TP[30]	7767.5	-239.985	65	80
239	TP[31]	7852.5	-239.985	65	80
240	TP[32]	7937.5	-239.985	65	80

FITIPOWER CONFIDENTIAL
FITIPOWER DISCLOSURE

Pad Num	Pad name	X	Y	W	H
241	TP[33]	8022.5	-239.985	65	80
242	TP[34]	8107.5	-239.985	65	80
243	TP[35]	8192.5	-239.985	65	80
244	TP[36]	8277.5	-239.985	65	80
245	TP[37]	8362.5	-239.985	65	80
246	TP[38]	8447.5	-239.985	65	80
247	SHIELDING	8532.5	-239.985	65	80
248	VDD	8617.5	-239.985	65	80
249	VDD	8702.5	-239.985	65	80
250	VDD	8787.5	-239.985	65	80
251	VDD	8872.5	-239.985	65	80
252	SHIELDING	8957.5	-239.985	65	80
253	GND	9042.5	-239.985	65	80
254	GND	9127.5	-239.985	65	80
255	GND	9212.5	-239.985	65	80
256	GND	9297.5	-239.985	65	80
257	SHIELDING	9382.5	-239.985	65	80
258	AVDD	9467.5	-239.985	65	80
259	AVDD	9552.5	-239.985	65	80
260	AVDD	9637.5	-239.985	65	80
261	AVDD	9722.5	-239.985	65	80
262	SHIELDING	9807.5	-239.985	65	80
263	AGND	9892.5	-239.985	65	80
264	AGND	9977.5	-239.985	65	80
265	AGND	10062.5	-239.985	65	80
266	AGND	10147.5	-239.985	65	80
267	SHIELDING	10232.5	-239.985	65	80
268	TP[39]	10317.5	-239.985	65	80
269	VCOMI	10402.5	-239.985	65	80
270	VCOMI	10487.5	-239.985	65	80
271	PWR_EN	10572.5	-239.985	65	80
272	PWR_EN	10657.5	-239.985	65	80
273	TP[40]	10742.5	-239.985	65	80
274	TP[41]	10827.5	-239.985	65	80
275	TP[42]	10912.5	-239.985	65	80
276	TP[43]	10997.5	-239.985	65	80
277	TP[44]	11082.5	-239.985	65	80
278	TP[45]	11167.5	-239.985	65	80
279	TP[46]	11252.5	-239.985	65	80
280	TP[47]	11337.5	-239.985	65	80
281	TP[48]	11422.5	-239.985	65	80
282	TP[49]	11507.5	-239.985	65	80
283	TP[50]	11592.5	-239.985	65	80
284	TP[51]	11677.5	-239.985	65	80
285	TP[52]	11762.5	-239.985	65	80
286	TP[53]	11847.5	-239.985	65	80
287	TP[54]	11932.5	-239.985	65	80
288	TP[55]	12017.5	-239.985	65	80
289	VCOMO	12102.5	-239.985	65	80
290	VCOMO	12187.5	-239.985	65	80
291	COM2_IN	12272.5	-239.985	65	80
292	COM2_IN	12357.5	-239.985	65	80
293	STBNL	12303	-88.985	80	30
294	F_CtrlL	12393.4	-48.985	60.8	30
295	STV2L	12303	-8.985	80	30
296	STV1L	12393.4	31.015	60.8	30
297	CKVL	12303	71.015	80	30
298	UDL	12393.4	111.015	60.8	30
299	SYNC2L	12303	151.015	80	30
300	SYNC1L	12393.4	191.015	60.8	30

Pad Num	Pad name	X	Y	W	H
301	OEVL	12303	231.015	80	30
302	F_CtrlL	12393.4	268.015	60.8	24
303	SHIELDING	12205	248.015	30	64
304	COM2_OUT	12155	248.015	30	64
305	COM2_OUT	12105	248.015	30	64
306	SHIELDING	12055	248.015	30	64
307	SO[1]	12012.5	106.015	15	100
308	SO[2]	11997.5	233.015	15	94
309	SO[3]	11982.5	106.015	15	100
310	SO[4]	11967.5	233.015	15	94
311	SO[5]	11952.5	106.015	15	100
312	SO[6]	11937.5	233.015	15	94
313	SO[7]	11922.5	106.015	15	100
314	SO[8]	11907.5	233.015	15	94
315	SO[9]	11892.5	106.015	15	100
316	SO[10]	11877.5	233.015	15	94
317	SO[11]	11862.5	106.015	15	100
318	SO[12]	11847.5	233.015	15	94
319	SO[13]	11832.5	106.015	15	100
320	SO[14]	11817.5	233.015	15	94
321	SO[15]	11802.5	106.015	15	100
322	SO[16]	11787.5	233.015	15	94
323	SO[17]	11772.5	106.015	15	100
324	SO[18]	11757.5	233.015	15	94
325	SO[19]	11742.5	106.015	15	100
326	SO[20]	11727.5	233.015	15	94
327	SO[21]	11712.5	106.015	15	100
328	SO[22]	11697.5	233.015	15	94
329	SO[23]	11682.5	106.015	15	100
330	SO[24]	11667.5	233.015	15	94
331	SO[25]	11652.5	106.015	15	100
332	SO[26]	11637.5	233.015	15	94
333	SO[27]	11622.5	106.015	15	100
334	SO[28]	11607.5	233.015	15	94
335	SO[29]	11592.5	106.015	15	100
336	SO[30]	11577.5	233.015	15	94
337	SO[31]	11562.5	106.015	15	100
338	SO[32]	11547.5	233.015	15	94
339	SO[33]	11532.5	106.015	15	100
340	SO[34]	11517.5	233.015	15	94
341	SO[35]	11502.5	106.015	15	100
342	SO[36]	11487.5	233.015	15	94
343	SO[37]	11472.5	106.015	15	100
344	SO[38]	11457.5	233.015	15	94
345	SO[39]	11442.5	106.015	15	100
346	SO[40]	11427.5	233.015	15	94
347	SO[41]	11412.5	106.015	15	100
348	SO[42]	11397.5	233.015	15	94
349	SO[43]	11382.5	106.015	15	100
350	SO[44]	11367.5	233.015	15	94
351	SO[45]	11352.5	106.015	15	100
352	SO[46]	11337.5	233.015	15	94
353	SO[47]	11322.5	106.015	15	100
354	SO[48]	11307.5	233.015	15	94
355	SO[49]	11292.5	106.015	15	100
356	SO[50]	11277.5	233.015	15	94
357	SO[51]	11262.5	106.015	15	100
358	SO[52]	11247.5	233.015	15	94
359	SO[53]	11232.5	106.015	15	100
360	SO[54]	11217.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
361	SO[55]	11202.5	106.015	15	100
362	SO[56]	11187.5	233.015	15	94
363	SO[57]	11172.5	106.015	15	100
364	SO[58]	11157.5	233.015	15	94
365	SO[59]	11142.5	106.015	15	100
366	SO[60]	11127.5	233.015	15	94
367	SO[61]	11112.5	106.015	15	100
368	SO[62]	11097.5	233.015	15	94
369	SO[63]	11082.5	106.015	15	100
370	SO[64]	11067.5	233.015	15	94
371	SO[65]	11052.5	106.015	15	100
372	SO[66]	11037.5	233.015	15	94
373	SO[67]	11022.5	106.015	15	100
374	SO[68]	11007.5	233.015	15	94
375	SO[69]	10992.5	106.015	15	100
376	SO[70]	10977.5	233.015	15	94
377	SO[71]	10962.5	106.015	15	100
378	SO[72]	10947.5	233.015	15	94
379	SO[73]	10932.5	106.015	15	100
380	SO[74]	10917.5	233.015	15	94
381	SO[75]	10902.5	106.015	15	100
382	SO[76]	10887.5	233.015	15	94
383	SO[77]	10872.5	106.015	15	100
384	SO[78]	10857.5	233.015	15	94
385	SO[79]	10842.5	106.015	15	100
386	SO[80]	10827.5	233.015	15	94
387	SO[81]	10812.5	106.015	15	100
388	SO[82]	10797.5	233.015	15	94
389	SO[83]	10782.5	106.015	15	100
390	SO[84]	10767.5	233.015	15	94
391	SO[85]	10752.5	106.015	15	100
392	SO[86]	10737.5	233.015	15	94
393	SO[87]	10722.5	106.015	15	100
394	SO[88]	10707.5	233.015	15	94
395	SO[89]	10692.5	106.015	15	100
396	SO[90]	10677.5	233.015	15	94
397	SO[91]	10662.5	106.015	15	100
398	SO[92]	10647.5	233.015	15	94
399	SO[93]	10632.5	106.015	15	100
400	SO[94]	10617.5	233.015	15	94
401	SO[95]	10602.5	106.015	15	100
402	SO[96]	10587.5	233.015	15	94
403	SO[97]	10572.5	106.015	15	100
404	SO[98]	10557.5	233.015	15	94
405	SO[99]	10542.5	106.015	15	100
406	SO[100]	10527.5	233.015	15	94
407	SO[101]	10512.5	106.015	15	100
408	SO[102]	10497.5	233.015	15	94
409	SO[103]	10482.5	106.015	15	100
410	SO[104]	10467.5	233.015	15	94
411	SO[105]	10452.5	106.015	15	100
412	SO[106]	10437.5	233.015	15	94
413	SO[107]	10422.5	106.015	15	100
414	SO[108]	10407.5	233.015	15	94
415	SO[109]	10392.5	106.015	15	100
416	SO[110]	10377.5	233.015	15	94
417	SO[111]	10362.5	106.015	15	100
418	SO[112]	10347.5	233.015	15	94
419	SO[113]	10332.5	106.015	15	100
420	SO[114]	10317.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
421	SO[115]	10302.5	106.015	15	100
422	SO[116]	10287.5	233.015	15	94
423	SO[117]	10272.5	106.015	15	100
424	SO[118]	10257.5	233.015	15	94
425	SO[119]	10242.5	106.015	15	100
426	SO[120]	10227.5	233.015	15	94
427	SO[121]	10212.5	106.015	15	100
428	SO[122]	10197.5	233.015	15	94
429	SO[123]	10182.5	106.015	15	100
430	SO[124]	10167.5	233.015	15	94
431	SO[125]	10152.5	106.015	15	100
432	SO[126]	10137.5	233.015	15	94
433	SO[127]	10122.5	106.015	15	100
434	SO[128]	10107.5	233.015	15	94
435	SO[129]	10092.5	106.015	15	100
436	SO[130]	10077.5	233.015	15	94
437	SO[131]	10062.5	106.015	15	100
438	SO[132]	10047.5	233.015	15	94
439	SO[133]	10032.5	106.015	15	100
440	SO[134]	10017.5	233.015	15	94
441	SO[135]	10002.5	106.015	15	100
442	SO[136]	9987.5	233.015	15	94
443	SO[137]	9972.5	106.015	15	100
444	SO[138]	9957.5	233.015	15	94
445	SO[139]	9942.5	106.015	15	100
446	SO[140]	9927.5	233.015	15	94
447	SO[141]	9912.5	106.015	15	100
448	SO[142]	9897.5	233.015	15	94
449	SO[143]	9882.5	106.015	15	100
450	SO[144]	9867.5	233.015	15	94
451	SO[145]	9852.5	106.015	15	100
452	SO[146]	9837.5	233.015	15	94
453	SO[147]	9822.5	106.015	15	100
454	SO[148]	9807.5	233.015	15	94
455	SO[149]	9792.5	106.015	15	100
456	SO[150]	9777.5	233.015	15	94
457	SO[151]	9762.5	106.015	15	100
458	SO[152]	9747.5	233.015	15	94
459	SO[153]	9732.5	106.015	15	100
460	SO[154]	9717.5	233.015	15	94
461	SO[155]	9702.5	106.015	15	100
462	SO[156]	9687.5	233.015	15	94
463	SO[157]	9672.5	106.015	15	100
464	SO[158]	9657.5	233.015	15	94
465	SO[159]	9642.5	106.015	15	100
466	SO[160]	9627.5	233.015	15	94
467	SO[161]	9612.5	106.015	15	100
468	SO[162]	9597.5	233.015	15	94
469	SO[163]	9582.5	106.015	15	100
470	SO[164]	9567.5	233.015	15	94
471	SO[165]	9552.5	106.015	15	100
472	SO[166]	9537.5	233.015	15	94
473	SO[167]	9522.5	106.015	15	100
474	SO[168]	9507.5	233.015	15	94
475	SO[169]	9492.5	106.015	15	100
476	SO[170]	9477.5	233.015	15	94
477	SO[171]	9462.5	106.015	15	100
478	SO[172]	9447.5	233.015	15	94
479	SO[173]	9432.5	106.015	15	100
480	SO[174]	9417.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
481	SO[175]	9402.5	106.015	15	100
482	SO[176]	9387.5	233.015	15	94
483	SO[177]	9372.5	106.015	15	100
484	SO[178]	9357.5	233.015	15	94
485	SO[179]	9342.5	106.015	15	100
486	SO[180]	9327.5	233.015	15	94
487	SO[181]	9312.5	106.015	15	100
488	SO[182]	9297.5	233.015	15	94
489	SO[183]	9282.5	106.015	15	100
490	SO[184]	9267.5	233.015	15	94
491	SO[185]	9252.5	106.015	15	100
492	SO[186]	9237.5	233.015	15	94
493	SO[187]	9222.5	106.015	15	100
494	SO[188]	9207.5	233.015	15	94
495	SO[189]	9192.5	106.015	15	100
496	SO[190]	9177.5	233.015	15	94
497	SO[191]	9162.5	106.015	15	100
498	SO[192]	9147.5	233.015	15	94
499	SO[193]	9132.5	106.015	15	100
500	SO[194]	9117.5	233.015	15	94
501	SO[195]	9102.5	106.015	15	100
502	SO[196]	9087.5	233.015	15	94
503	SO[197]	9072.5	106.015	15	100
504	SO[198]	9057.5	233.015	15	94
505	SO[199]	9042.5	106.015	15	100
506	SO[200]	9027.5	233.015	15	94
507	SO[201]	9012.5	106.015	15	100
508	SO[202]	8997.5	233.015	15	94
509	SO[203]	8982.5	106.015	15	100
510	SO[204]	8967.5	233.015	15	94
511	SO[205]	8952.5	106.015	15	100
512	SO[206]	8937.5	233.015	15	94
513	SO[207]	8922.5	106.015	15	100
514	SO[208]	8907.5	233.015	15	94
515	SO[209]	8892.5	106.015	15	100
516	SO[210]	8877.5	233.015	15	94
517	SO[211]	8862.5	106.015	15	100
518	SO[212]	8847.5	233.015	15	94
519	SO[213]	8832.5	106.015	15	100
520	SO[214]	8817.5	233.015	15	94
521	SO[215]	8802.5	106.015	15	100
522	SO[216]	8787.5	233.015	15	94
523	SO[217]	8772.5	106.015	15	100
524	SO[218]	8757.5	233.015	15	94
525	SO[219]	8742.5	106.015	15	100
526	SO[220]	8727.5	233.015	15	94
527	SO[221]	8712.5	106.015	15	100
528	SO[222]	8697.5	233.015	15	94
529	SO[223]	8682.5	106.015	15	100
530	SO[224]	8667.5	233.015	15	94
531	SO[225]	8652.5	106.015	15	100
532	SO[226]	8637.5	233.015	15	94
533	SO[227]	8622.5	106.015	15	100
534	SO[228]	8607.5	233.015	15	94
535	SO[229]	8592.5	106.015	15	100
536	SO[230]	8577.5	233.015	15	94
537	SO[231]	8562.5	106.015	15	100
538	SO[232]	8547.5	233.015	15	94
539	SO[233]	8532.5	106.015	15	100
540	SO[234]	8517.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
541	SO[235]	8502.5	106.015	15	100
542	SO[236]	8487.5	233.015	15	94
543	SO[237]	8472.5	106.015	15	100
544	SO[238]	8457.5	233.015	15	94
545	SO[239]	8442.5	106.015	15	100
546	SO[240]	8427.5	233.015	15	94
547	SO[241]	8412.5	106.015	15	100
548	SO[242]	8397.5	233.015	15	94
549	SO[243]	8382.5	106.015	15	100
550	SO[244]	8367.5	233.015	15	94
551	SO[245]	8352.5	106.015	15	100
552	SO[246]	8337.5	233.015	15	94
553	SO[247]	8322.5	106.015	15	100
554	SO[248]	8307.5	233.015	15	94
555	SO[249]	8292.5	106.015	15	100
556	SO[250]	8277.5	233.015	15	94
557	SO[251]	8262.5	106.015	15	100
558	SO[252]	8247.5	233.015	15	94
559	SO[253]	8232.5	106.015	15	100
560	SO[254]	8217.5	233.015	15	94
561	SO[255]	8202.5	106.015	15	100
562	SO[256]	8187.5	233.015	15	94
563	SO[257]	8172.5	106.015	15	100
564	SO[258]	8157.5	233.015	15	94
565	SO[259]	8142.5	106.015	15	100
566	SO[260]	8127.5	233.015	15	94
567	SO[261]	8112.5	106.015	15	100
568	SO[262]	8097.5	233.015	15	94
569	SO[263]	8082.5	106.015	15	100
570	SO[264]	8067.5	233.015	15	94
571	SO[265]	8052.5	106.015	15	100
572	SO[266]	8037.5	233.015	15	94
573	SO[267]	8022.5	106.015	15	100
574	SO[268]	8007.5	233.015	15	94
575	SO[269]	7992.5	106.015	15	100
576	SO[270]	7977.5	233.015	15	94
577	SO[271]	7962.5	106.015	15	100
578	SO[272]	7947.5	233.015	15	94
579	SO[273]	7932.5	106.015	15	100
580	SO[274]	7917.5	233.015	15	94
581	SO[275]	7902.5	106.015	15	100
582	SO[276]	7887.5	233.015	15	94
583	SO[277]	7872.5	106.015	15	100
584	SO[278]	7857.5	233.015	15	94
585	SO[279]	7842.5	106.015	15	100
586	SO[280]	7827.5	233.015	15	94
587	SO[281]	7812.5	106.015	15	100
588	SO[282]	7797.5	233.015	15	94
589	SO[283]	7782.5	106.015	15	100
590	SO[284]	7767.5	233.015	15	94
591	SO[285]	7752.5	106.015	15	100
592	SO[286]	7737.5	233.015	15	94
593	SO[287]	7722.5	106.015	15	100
594	SO[288]	7707.5	233.015	15	94
595	SO[289]	7692.5	106.015	15	100
596	SO[290]	7677.5	233.015	15	94
597	SO[291]	7662.5	106.015	15	100
598	SO[292]	7647.5	233.015	15	94
599	SO[293]	7632.5	106.015	15	100
600	SO[294]	7617.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
601	SO[295]	7602.5	106.015	15	100
602	SO[296]	7587.5	233.015	15	94
603	SO[297]	7572.5	106.015	15	100
604	SO[298]	7557.5	233.015	15	94
605	SO[299]	7542.5	106.015	15	100
606	SO[300]	7527.5	233.015	15	94
607	SO[301]	7512.5	106.015	15	100
608	SO[302]	7497.5	233.015	15	94
609	SO[303]	7482.5	106.015	15	100
610	SO[304]	7467.5	233.015	15	94
611	SO[305]	7452.5	106.015	15	100
612	SO[306]	7437.5	233.015	15	94
613	SO[307]	7422.5	106.015	15	100
614	SO[308]	7407.5	233.015	15	94
615	SO[309]	7392.5	106.015	15	100
616	SO[310]	7377.5	233.015	15	94
617	SO[311]	7362.5	106.015	15	100
618	SO[312]	7347.5	233.015	15	94
619	SO[313]	7332.5	106.015	15	100
620	SO[314]	7317.5	233.015	15	94
621	SO[315]	7302.5	106.015	15	100
622	SO[316]	7287.5	233.015	15	94
623	SO[317]	7272.5	106.015	15	100
624	SO[318]	7257.5	233.015	15	94
625	SO[319]	7242.5	106.015	15	100
626	SO[320]	7227.5	233.015	15	94
627	SO[321]	7212.5	106.015	15	100
628	SO[322]	7197.5	233.015	15	94
629	SO[323]	7182.5	106.015	15	100
630	SO[324]	7167.5	233.015	15	94
631	SO[325]	7152.5	106.015	15	100
632	SO[326]	7137.5	233.015	15	94
633	SO[327]	7122.5	106.015	15	100
634	SO[328]	7107.5	233.015	15	94
635	SO[329]	7092.5	106.015	15	100
636	SO[330]	7077.5	233.015	15	94
637	SO[331]	7062.5	106.015	15	100
638	SO[332]	7047.5	233.015	15	94
639	SO[333]	7032.5	106.015	15	100
640	SO[334]	7017.5	233.015	15	94
641	SO[335]	7002.5	106.015	15	100
642	SO[336]	6987.5	233.015	15	94
643	SO[337]	6972.5	106.015	15	100
644	SO[338]	6957.5	233.015	15	94
645	SO[339]	6942.5	106.015	15	100
646	SO[340]	6927.5	233.015	15	94
647	SO[341]	6912.5	106.015	15	100
648	SO[342]	6897.5	233.015	15	94
649	SO[343]	6882.5	106.015	15	100
650	SO[344]	6867.5	233.015	15	94
651	SO[345]	6852.5	106.015	15	100
652	SO[346]	6837.5	233.015	15	94
653	SO[347]	6822.5	106.015	15	100
654	SO[348]	6807.5	233.015	15	94
655	SO[349]	6792.5	106.015	15	100
656	SO[350]	6777.5	233.015	15	94
657	SO[351]	6762.5	106.015	15	100
658	SO[352]	6747.5	233.015	15	94
659	SO[353]	6732.5	106.015	15	100
660	SO[354]	6717.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
661	SO[355]	6702.5	106.015	15	100
662	SO[356]	6687.5	233.015	15	94
663	SO[357]	6672.5	106.015	15	100
664	SO[358]	6657.5	233.015	15	94
665	SO[359]	6642.5	106.015	15	100
666	SO[360]	6627.5	233.015	15	94
667	SO[361]	6612.5	106.015	15	100
668	SO[362]	6597.5	233.015	15	94
669	SO[363]	6582.5	106.015	15	100
670	SO[364]	6567.5	233.015	15	94
671	SO[365]	6552.5	106.015	15	100
672	SO[366]	6537.5	233.015	15	94
673	SO[367]	6522.5	106.015	15	100
674	SO[368]	6507.5	233.015	15	94
675	SO[369]	6492.5	106.015	15	100
676	SO[370]	6477.5	233.015	15	94
677	SO[371]	6462.5	106.015	15	100
678	SO[372]	6447.5	233.015	15	94
679	SO[373]	6432.5	106.015	15	100
680	SO[374]	6417.5	233.015	15	94
681	SO[375]	6402.5	106.015	15	100
682	SO[376]	6387.5	233.015	15	94
683	SO[377]	6372.5	106.015	15	100
684	SO[378]	6357.5	233.015	15	94
685	SO[379]	6342.5	106.015	15	100
686	SO[380]	6327.5	233.015	15	94
687	SO[381]	6312.5	106.015	15	100
688	SO[382]	6297.5	233.015	15	94
689	SO[383]	6282.5	106.015	15	100
690	SO[384]	6267.5	233.015	15	94
691	SO[385]	6252.5	106.015	15	100
692	SO[386]	6237.5	233.015	15	94
693	SO[387]	6222.5	106.015	15	100
694	SO[388]	6207.5	233.015	15	94
695	SO[389]	6192.5	106.015	15	100
696	SO[390]	6177.5	233.015	15	94
697	SO[391]	6162.5	106.015	15	100
698	SO[392]	6147.5	233.015	15	94
699	SO[393]	6132.5	106.015	15	100
700	SO[394]	6117.5	233.015	15	94
701	SO[395]	6102.5	106.015	15	100
702	SO[396]	6087.5	233.015	15	94
703	SO[397]	6072.5	106.015	15	100
704	SO[398]	6057.5	233.015	15	94
705	SO[399]	6042.5	106.015	15	100
706	SO[400]	6027.5	233.015	15	94
707	SO[401]	6012.5	106.015	15	100
708	SO[402]	5997.5	233.015	15	94
709	SO[403]	5982.5	106.015	15	100
710	SO[404]	5967.5	233.015	15	94
711	SO[405]	5952.5	106.015	15	100
712	SO[406]	5937.5	233.015	15	94
713	SO[407]	5922.5	106.015	15	100
714	SO[408]	5907.5	233.015	15	94
715	SO[409]	5892.5	106.015	15	100
716	SO[410]	5877.5	233.015	15	94
717	SO[411]	5862.5	106.015	15	100
718	SO[412]	5847.5	233.015	15	94
719	SO[413]	5832.5	106.015	15	100
720	SO[414]	5817.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
721	SO[415]	5802.5	106.015	15	100
722	SO[416]	5787.5	233.015	15	94
723	SO[417]	5772.5	106.015	15	100
724	SO[418]	5757.5	233.015	15	94
725	SO[419]	5742.5	106.015	15	100
726	SO[420]	5727.5	233.015	15	94
727	SO[421]	5712.5	106.015	15	100
728	SO[422]	5697.5	233.015	15	94
729	SO[423]	5682.5	106.015	15	100
730	SO[424]	5667.5	233.015	15	94
731	SO[425]	5652.5	106.015	15	100
732	SO[426]	5637.5	233.015	15	94
733	SO[427]	5622.5	106.015	15	100
734	SO[428]	5607.5	233.015	15	94
735	SO[429]	5592.5	106.015	15	100
736	SO[430]	5577.5	233.015	15	94
737	SO[431]	5562.5	106.015	15	100
738	SO[432]	5547.5	233.015	15	94
739	SO[433]	5532.5	106.015	15	100
740	SO[434]	5517.5	233.015	15	94
741	SO[435]	5502.5	106.015	15	100
742	SO[436]	5487.5	233.015	15	94
743	SO[437]	5472.5	106.015	15	100
744	SO[438]	5457.5	233.015	15	94
745	SO[439]	5442.5	106.015	15	100
746	SO[440]	5427.5	233.015	15	94
747	SO[441]	5412.5	106.015	15	100
748	SO[442]	5397.5	233.015	15	94
749	SO[443]	5382.5	106.015	15	100
750	SO[444]	5367.5	233.015	15	94
751	SO[445]	5352.5	106.015	15	100
752	SO[446]	5337.5	233.015	15	94
753	SO[447]	5322.5	106.015	15	100
754	SO[448]	5307.5	233.015	15	94
755	SO[449]	5292.5	106.015	15	100
756	SO[450]	5277.5	233.015	15	94
757	SO[451]	5262.5	106.015	15	100
758	SO[452]	5247.5	233.015	15	94
759	SO[453]	5232.5	106.015	15	100
760	SO[454]	5217.5	233.015	15	94
761	SO[455]	5202.5	106.015	15	100
762	SO[456]	5187.5	233.015	15	94
763	SO[457]	5172.5	106.015	15	100
764	SO[458]	5157.5	233.015	15	94
765	SO[459]	5142.5	106.015	15	100
766	SO[460]	5127.5	233.015	15	94
767	SO[461]	5112.5	106.015	15	100
768	SO[462]	5097.5	233.015	15	94
769	SO[463]	5082.5	106.015	15	100
770	SO[464]	5067.5	233.015	15	94
771	SO[465]	5052.5	106.015	15	100
772	SO[466]	5037.5	233.015	15	94
773	SO[467]	5022.5	106.015	15	100
774	SO[468]	5007.5	233.015	15	94
775	SO[469]	4992.5	106.015	15	100
776	SO[470]	4977.5	233.015	15	94
777	SO[471]	4962.5	106.015	15	100
778	SO[472]	4947.5	233.015	15	94
779	SO[473]	4932.5	106.015	15	100
780	SO[474]	4917.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
781	SO[475]	4902.5	106.015	15	100
782	SO[476]	4887.5	233.015	15	94
783	SO[477]	4872.5	106.015	15	100
784	SO[478]	4857.5	233.015	15	94
785	SO[479]	4842.5	106.015	15	100
786	SO[480]	4827.5	233.015	15	94
787	SO[481]	4812.5	106.015	15	100
788	SO[482]	4797.5	233.015	15	94
789	SO[483]	4782.5	106.015	15	100
790	SO[484]	4767.5	233.015	15	94
791	SO[485]	4752.5	106.015	15	100
792	SO[486]	4737.5	233.015	15	94
793	SO[487]	4722.5	106.015	15	100
794	SO[488]	4707.5	233.015	15	94
795	SO[489]	4692.5	106.015	15	100
796	SO[490]	4677.5	233.015	15	94
797	SO[491]	4662.5	106.015	15	100
798	SO[492]	4647.5	233.015	15	94
799	SO[493]	4632.5	106.015	15	100
800	SO[494]	4617.5	233.015	15	94
801	SO[495]	4602.5	106.015	15	100
802	SO[496]	4587.5	233.015	15	94
803	SO[497]	4572.5	106.015	15	100
804	SO[498]	4557.5	233.015	15	94
805	SO[499]	4542.5	106.015	15	100
806	SO[500]	4527.5	233.015	15	94
807	SO[501]	4512.5	106.015	15	100
808	SO[502]	4497.5	233.015	15	94
809	SO[503]	4482.5	106.015	15	100
810	SO[504]	4467.5	233.015	15	94
811	SO[505]	4452.5	106.015	15	100
812	SO[506]	4437.5	233.015	15	94
813	SO[507]	4422.5	106.015	15	100
814	SO[508]	4407.5	233.015	15	94
815	SO[509]	4392.5	106.015	15	100
816	SO[510]	4377.5	233.015	15	94
817	SO[511]	4362.5	106.015	15	100
818	SO[512]	4347.5	233.015	15	94
819	SO[513]	4332.5	106.015	15	100
820	SO[514]	4317.5	233.015	15	94
821	SO[515]	4302.5	106.015	15	100
822	SO[516]	4287.5	233.015	15	94
823	SO[517]	4272.5	106.015	15	100
824	SO[518]	4257.5	233.015	15	94
825	SO[519]	4242.5	106.015	15	100
826	SO[520]	4227.5	233.015	15	94
827	SO[521]	4212.5	106.015	15	100
828	SO[522]	4197.5	233.015	15	94
829	SO[523]	4182.5	106.015	15	100
830	SO[524]	4167.5	233.015	15	94
831	SO[525]	4152.5	106.015	15	100
832	SO[526]	4137.5	233.015	15	94
833	SO[527]	4122.5	106.015	15	100
834	SO[528]	4107.5	233.015	15	94
835	SO[529]	4092.5	106.015	15	100
836	SO[530]	4077.5	233.015	15	94
837	SO[531]	4062.5	106.015	15	100
838	SO[532]	4047.5	233.015	15	94
839	SO[533]	4032.5	106.015	15	100
840	SO[534]	4017.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
841	SO[535]	4002.5	106.015	15	100
842	SO[536]	3987.5	233.015	15	94
843	SO[537]	3972.5	106.015	15	100
844	SO[538]	3957.5	233.015	15	94
845	SO[539]	3942.5	106.015	15	100
846	SO[540]	3927.5	233.015	15	94
847	SO[541]	3912.5	106.015	15	100
848	SO[542]	3897.5	233.015	15	94
849	SO[543]	3882.5	106.015	15	100
850	SO[544]	3867.5	233.015	15	94
851	SO[545]	3852.5	106.015	15	100
852	SO[546]	3837.5	233.015	15	94
853	SO[547]	3822.5	106.015	15	100
854	SO[548]	3807.5	233.015	15	94
855	SO[549]	3792.5	106.015	15	100
856	SO[550]	3777.5	233.015	15	94
857	SO[551]	3762.5	106.015	15	100
858	SO[552]	3747.5	233.015	15	94
859	SO[553]	3732.5	106.015	15	100
860	SO[554]	3717.5	233.015	15	94
861	SO[555]	3702.5	106.015	15	100
862	SO[556]	3687.5	233.015	15	94
863	SO[557]	3672.5	106.015	15	100
864	SO[558]	3657.5	233.015	15	94
865	SO[559]	3642.5	106.015	15	100
866	SO[560]	3627.5	233.015	15	94
867	SO[561]	3612.5	106.015	15	100
868	SO[562]	3597.5	233.015	15	94
869	SO[563]	3582.5	106.015	15	100
870	SO[564]	3567.5	233.015	15	94
871	SO[565]	3552.5	106.015	15	100
872	SO[566]	3537.5	233.015	15	94
873	SO[567]	3522.5	106.015	15	100
874	SO[568]	3507.5	233.015	15	94
875	SO[569]	3492.5	106.015	15	100
876	SO[570]	3477.5	233.015	15	94
877	SO[571]	3462.5	106.015	15	100
878	SO[572]	3447.5	233.015	15	94
879	SO[573]	3432.5	106.015	15	100
880	SO[574]	3417.5	233.015	15	94
881	SO[575]	3402.5	106.015	15	100
882	SO[576]	3387.5	233.015	15	94
883	SO[577]	3372.5	106.015	15	100
884	SO[578]	3357.5	233.015	15	94
885	SO[579]	3342.5	106.015	15	100
886	SO[580]	3327.5	233.015	15	94
887	SO[581]	3312.5	106.015	15	100
888	SO[582]	3297.5	233.015	15	94
889	SO[583]	3282.5	106.015	15	100
890	SO[584]	3267.5	233.015	15	94
891	SO[585]	3252.5	106.015	15	100
892	SO[586]	3237.5	233.015	15	94
893	SO[587]	3222.5	106.015	15	100
894	SO[588]	3207.5	233.015	15	94
895	SO[589]	3192.5	106.015	15	100
896	SO[590]	3177.5	233.015	15	94
897	SO[591]	3162.5	106.015	15	100
898	SO[592]	3147.5	233.015	15	94
899	SO[593]	3132.5	106.015	15	100
900	SO[594]	3117.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
901	SO[595]	3102.5	106.015	15	100
902	SO[596]	3087.5	233.015	15	94
903	SO[597]	3072.5	106.015	15	100
904	SO[598]	3057.5	233.015	15	94
905	SO[599]	3042.5	106.015	15	100
906	SO[600]	3027.5	233.015	15	94
907	SO[601]	3012.5	106.015	15	100
908	SO[602]	2997.5	233.015	15	94
909	SO[603]	2982.5	106.015	15	100
910	SO[604]	2967.5	233.015	15	94
911	SO[605]	2952.5	106.015	15	100
912	SO[606]	2937.5	233.015	15	94
913	SO[607]	2922.5	106.015	15	100
914	SO[608]	2907.5	233.015	15	94
915	SO[609]	2892.5	106.015	15	100
916	SO[610]	2877.5	233.015	15	94
917	SO[611]	2862.5	106.015	15	100
918	SO[612]	2847.5	233.015	15	94
919	SO[613]	2832.5	106.015	15	100
920	SO[614]	2817.5	233.015	15	94
921	SO[615]	2802.5	106.015	15	100
922	SO[616]	2787.5	233.015	15	94
923	SO[617]	2772.5	106.015	15	100
924	SO[618]	2757.5	233.015	15	94
925	SO[619]	2742.5	106.015	15	100
926	SO[620]	2727.5	233.015	15	94
927	SO[621]	2712.5	106.015	15	100
928	SO[622]	2697.5	233.015	15	94
929	SO[623]	2682.5	106.015	15	100
930	SO[624]	2667.5	233.015	15	94
931	SO[625]	2652.5	106.015	15	100
932	SO[626]	2637.5	233.015	15	94
933	SO[627]	2622.5	106.015	15	100
934	SO[628]	2607.5	233.015	15	94
935	SO[629]	2592.5	106.015	15	100
936	SO[630]	2577.5	233.015	15	94
937	SO[631]	2562.5	106.015	15	100
938	SO[632]	2547.5	233.015	15	94
939	SO[633]	2532.5	106.015	15	100
940	SO[634]	2517.5	233.015	15	94
941	SO[635]	2502.5	106.015	15	100
942	SO[636]	2487.5	233.015	15	94
943	SO[637]	2472.5	106.015	15	100
944	SO[638]	2457.5	233.015	15	94
945	SO[639]	2442.5	106.015	15	100
946	SO[640]	2427.5	233.015	15	94
947	SO[641]	2412.5	106.015	15	100
948	SO[642]	2397.5	233.015	15	94
949	SO[643]	2382.5	106.015	15	100
950	SO[644]	2367.5	233.015	15	94
951	SO[645]	2352.5	106.015	15	100
952	SO[646]	2337.5	233.015	15	94
953	SO[647]	2322.5	106.015	15	100
954	SO[648]	2307.5	233.015	15	94
955	SO[649]	2292.5	106.015	15	100
956	SO[650]	2277.5	233.015	15	94
957	SO[651]	2262.5	106.015	15	100
958	SO[652]	2247.5	233.015	15	94
959	SO[653]	2232.5	106.015	15	100
960	SO[654]	2217.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
961	SO[655]	2202.5	106.015	15	100
962	SO[656]	2187.5	233.015	15	94
963	SO[657]	2172.5	106.015	15	100
964	SO[658]	2157.5	233.015	15	94
965	SO[659]	2142.5	106.015	15	100
966	SO[660]	2127.5	233.015	15	94
967	SO[661]	2112.5	106.015	15	100
968	SO[662]	2097.5	233.015	15	94
969	SO[663]	2082.5	106.015	15	100
970	SO[664]	2067.5	233.015	15	94
971	SO[665]	2052.5	106.015	15	100
972	SO[666]	2037.5	233.015	15	94
973	SO[667]	2022.5	106.015	15	100
974	SO[668]	2007.5	233.015	15	94
975	SO[669]	1992.5	106.015	15	100
976	SO[670]	1977.5	233.015	15	94
977	SO[671]	1962.5	106.015	15	100
978	SO[672]	1947.5	233.015	15	94
979	SO[673]	1932.5	106.015	15	100
980	SO[674]	1917.5	233.015	15	94
981	SO[675]	1902.5	106.015	15	100
982	SO[676]	1887.5	233.015	15	94
983	SO[677]	1872.5	106.015	15	100
984	SO[678]	1857.5	233.015	15	94
985	SO[679]	1842.5	106.015	15	100
986	SO[680]	1827.5	233.015	15	94
987	SO[681]	1812.5	106.015	15	100
988	SO[682]	1797.5	233.015	15	94
989	SO[683]	1782.5	106.015	15	100
990	SO[684]	1767.5	233.015	15	94
991	SO[685]	1752.5	106.015	15	100
992	SO[686]	1737.5	233.015	15	94
993	SO[687]	1722.5	106.015	15	100
994	SO[688]	1707.5	233.015	15	94
995	SO[689]	1692.5	106.015	15	100
996	SO[690]	1677.5	233.015	15	94
997	SO[691]	1662.5	106.015	15	100
998	SO[692]	1647.5	233.015	15	94
999	SO[693]	1632.5	106.015	15	100
1000	SO[694]	1617.5	233.015	15	94
1001	SO[695]	1602.5	106.015	15	100
1002	SO[696]	1587.5	233.015	15	94
1003	SO[697]	1572.5	106.015	15	100
1004	SO[698]	1557.5	233.015	15	94
1005	SO[699]	1542.5	106.015	15	100
1006	SO[700]	1527.5	233.015	15	94
1007	SO[701]	1512.5	106.015	15	100
1008	SO[702]	1497.5	233.015	15	94
1009	SO[703]	1482.5	106.015	15	100
1010	SO[704]	1467.5	233.015	15	94
1011	SO[705]	1452.5	106.015	15	100
1012	SO[706]	1437.5	233.015	15	94
1013	SO[707]	1422.5	106.015	15	100
1014	SO[708]	1407.5	233.015	15	94
1015	SO[709]	1392.5	106.015	15	100
1016	SO[710]	1377.5	233.015	15	94
1017	SO[711]	1362.5	106.015	15	100
1018	SO[712]	1347.5	233.015	15	94
1019	SO[713]	1332.5	106.015	15	100
1020	SO[714]	1317.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1021	SO[715]	1302.5	106.015	15	100
1022	SO[716]	1287.5	233.015	15	94
1023	SO[717]	1272.5	106.015	15	100
1024	SO[718]	1257.5	233.015	15	94
1025	SO[719]	1242.5	106.015	15	100
1026	SO[720]	1227.5	233.015	15	94
1027	SO[721]	1212.5	106.015	15	100
1028	SO[722]	1197.5	233.015	15	94
1029	SO[723]	1182.5	106.015	15	100
1030	SO[724]	1167.5	233.015	15	94
1031	SO[725]	1152.5	106.015	15	100
1032	SO[726]	1137.5	233.015	15	94
1033	SO[727]	1122.5	106.015	15	100
1034	SO[728]	1107.5	233.015	15	94
1035	SO[729]	1092.5	106.015	15	100
1036	SO[730]	1077.5	233.015	15	94
1037	SO[731]	1062.5	106.015	15	100
1038	SO[732]	1047.5	233.015	15	94
1039	SO[733]	1032.5	106.015	15	100
1040	SO[734]	1017.5	233.015	15	94
1041	SO[735]	1002.5	106.015	15	100
1042	SO[736]	987.5	233.015	15	94
1043	SO[737]	972.5	106.015	15	100
1044	SO[738]	957.5	233.015	15	94
1045	SO[739]	942.5	106.015	15	100
1046	SO[740]	927.5	233.015	15	94
1047	SO[741]	912.5	106.015	15	100
1048	SO[742]	897.5	233.015	15	94
1049	SO[743]	882.5	106.015	15	100
1050	SO[744]	867.5	233.015	15	94
1051	SO[745]	852.5	106.015	15	100
1052	SO[746]	837.5	233.015	15	94
1053	SO[747]	822.5	106.015	15	100
1054	SO[748]	807.5	233.015	15	94
1055	SO[749]	792.5	106.015	15	100
1056	SO[750]	777.5	233.015	15	94
1057	SO[751]	762.5	106.015	15	100
1058	SO[752]	747.5	233.015	15	94
1059	SO[753]	732.5	106.015	15	100
1060	SO[754]	717.5	233.015	15	94
1061	SO[755]	702.5	106.015	15	100
1062	SO[756]	687.5	233.015	15	94
1063	SO[757]	672.5	106.015	15	100
1064	SO[758]	657.5	233.015	15	94
1065	SO[759]	642.5	106.015	15	100
1066	SO[760]	627.5	233.015	15	94
1067	SO[761]	612.5	106.015	15	100
1068	SO[762]	597.5	233.015	15	94
1069	SO[763]	582.5	106.015	15	100
1070	SO[764]	567.5	233.015	15	94
1071	SO[765]	552.5	106.015	15	100
1072	SO[766]	537.5	233.015	15	94
1073	SO[767]	522.5	106.015	15	100
1074	SO[768]	507.5	233.015	15	94
1075	SHIELDING	455	248.015	30	64
1076	SHIELDING	405	248.015	30	64
1077	SHIELDING	355	248.015	30	64
1078	SHIELDING	50	248.015	30	64
1079	SHIELDING	0	248.015	30	64
1080	SHIELDING	-50	248.015	30	64

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1081	SHIELDING	-355	248.015	30	64
1082	SHIELDING	-405	248.015	30	64
1083	SHIELDING	-455	248.015	30	64
1084	SO[769]	-507.5	233.015	15	94
1085	SO[770]	-522.5	106.015	15	100
1086	SO[771]	-537.5	233.015	15	94
1087	SO[772]	-552.5	106.015	15	100
1088	SO[773]	-567.5	233.015	15	94
1089	SO[774]	-582.5	106.015	15	100
1090	SO[775]	-597.5	233.015	15	94
1091	SO[776]	-612.5	106.015	15	100
1092	SO[777]	-627.5	233.015	15	94
1093	SO[778]	-642.5	106.015	15	100
1094	SO[779]	-657.5	233.015	15	94
1095	SO[780]	-672.5	106.015	15	100
1096	SO[781]	-687.5	233.015	15	94
1097	SO[782]	-702.5	106.015	15	100
1098	SO[783]	-717.5	233.015	15	94
1099	SO[784]	-732.5	106.015	15	100
1100	SO[785]	-747.5	233.015	15	94
1101	SO[786]	-762.5	106.015	15	100
1102	SO[787]	-777.5	233.015	15	94
1103	SO[788]	-792.5	106.015	15	100
1104	SO[789]	-807.5	233.015	15	94
1105	SO[790]	-822.5	106.015	15	100
1106	SO[791]	-837.5	233.015	15	94
1107	SO[792]	-852.5	106.015	15	100
1108	SO[793]	-867.5	233.015	15	94
1109	SO[794]	-882.5	106.015	15	100
1110	SO[795]	-897.5	233.015	15	94
1111	SO[796]	-912.5	106.015	15	100
1112	SO[797]	-927.5	233.015	15	94
1113	SO[798]	-942.5	106.015	15	100
1114	SO[799]	-957.5	233.015	15	94
1115	SO[800]	-972.5	106.015	15	100
1116	SO[801]	-987.5	233.015	15	94
1117	SO[802]	-1002.5	106.015	15	100
1118	SO[803]	-1017.5	233.015	15	94
1119	SO[804]	-1032.5	106.015	15	100
1120	SO[805]	-1047.5	233.015	15	94
1121	SO[806]	-1062.5	106.015	15	100
1122	SO[807]	-1077.5	233.015	15	94
1123	SO[808]	-1092.5	106.015	15	100
1124	SO[809]	-1107.5	233.015	15	94
1125	SO[810]	-1122.5	106.015	15	100
1126	SO[811]	-1137.5	233.015	15	94
1127	SO[812]	-1152.5	106.015	15	100
1128	SO[813]	-1167.5	233.015	15	94
1129	SO[814]	-1182.5	106.015	15	100
1130	SO[815]	-1197.5	233.015	15	94
1131	SO[816]	-1212.5	106.015	15	100
1132	SO[817]	-1227.5	233.015	15	94
1133	SO[818]	-1242.5	106.015	15	100
1134	SO[819]	-1257.5	233.015	15	94
1135	SO[820]	-1272.5	106.015	15	100
1136	SO[821]	-1287.5	233.015	15	94
1137	SO[822]	-1302.5	106.015	15	100
1138	SO[823]	-1317.5	233.015	15	94
1139	SO[824]	-1332.5	106.015	15	100
1140	SO[825]	-1347.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1141	SO[826]	-1362.5	106.015	15	100
1142	SO[827]	-1377.5	233.015	15	94
1143	SO[828]	-1392.5	106.015	15	100
1144	SO[829]	-1407.5	233.015	15	94
1145	SO[830]	-1422.5	106.015	15	100
1146	SO[831]	-1437.5	233.015	15	94
1147	SO[832]	-1452.5	106.015	15	100
1148	SO[833]	-1467.5	233.015	15	94
1149	SO[834]	-1482.5	106.015	15	100
1150	SO[835]	-1497.5	233.015	15	94
1151	SO[836]	-1512.5	106.015	15	100
1152	SO[837]	-1527.5	233.015	15	94
1153	SO[838]	-1542.5	106.015	15	100
1154	SO[839]	-1557.5	233.015	15	94
1155	SO[840]	-1572.5	106.015	15	100
1156	SO[841]	-1587.5	233.015	15	94
1157	SO[842]	-1602.5	106.015	15	100
1158	SO[843]	-1617.5	233.015	15	94
1159	SO[844]	-1632.5	106.015	15	100
1160	SO[845]	-1647.5	233.015	15	94
1161	SO[846]	-1662.5	106.015	15	100
1162	SO[847]	-1677.5	233.015	15	94
1163	SO[848]	-1692.5	106.015	15	100
1164	SO[849]	-1707.5	233.015	15	94
1165	SO[850]	-1722.5	106.015	15	100
1166	SO[851]	-1737.5	233.015	15	94
1167	SO[852]	-1752.5	106.015	15	100
1168	SO[853]	-1767.5	233.015	15	94
1169	SO[854]	-1782.5	106.015	15	100
1170	SO[855]	-1797.5	233.015	15	94
1171	SO[856]	-1812.5	106.015	15	100
1172	SO[857]	-1827.5	233.015	15	94
1173	SO[858]	-1842.5	106.015	15	100
1174	SO[859]	-1857.5	233.015	15	94
1175	SO[860]	-1872.5	106.015	15	100
1176	SO[861]	-1887.5	233.015	15	94
1177	SO[862]	-1902.5	106.015	15	100
1178	SO[863]	-1917.5	233.015	15	94
1179	SO[864]	-1932.5	106.015	15	100
1180	SO[865]	-1947.5	233.015	15	94
1181	SO[866]	-1962.5	106.015	15	100
1182	SO[867]	-1977.5	233.015	15	94
1183	SO[868]	-1992.5	106.015	15	100
1184	SO[869]	-2007.5	233.015	15	94
1185	SO[870]	-2022.5	106.015	15	100
1186	SO[871]	-2037.5	233.015	15	94
1187	SO[872]	-2052.5	106.015	15	100
1188	SO[873]	-2067.5	233.015	15	94
1189	SO[874]	-2082.5	106.015	15	100
1190	SO[875]	-2097.5	233.015	15	94
1191	SO[876]	-2112.5	106.015	15	100
1192	SO[877]	-2127.5	233.015	15	94
1193	SO[878]	-2142.5	106.015	15	100
1194	SO[879]	-2157.5	233.015	15	94
1195	SO[880]	-2172.5	106.015	15	100
1196	SO[881]	-2187.5	233.015	15	94
1197	SO[882]	-2202.5	106.015	15	100
1198	SO[883]	-2217.5	233.015	15	94
1199	SO[884]	-2232.5	106.015	15	100
1200	SO[885]	-2247.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1201	SO[886]	-2262.5	106.015	15	100
1202	SO[887]	-2277.5	233.015	15	94
1203	SO[888]	-2292.5	106.015	15	100
1204	SO[889]	-2307.5	233.015	15	94
1205	SO[890]	-2322.5	106.015	15	100
1206	SO[891]	-2337.5	233.015	15	94
1207	SO[892]	-2352.5	106.015	15	100
1208	SO[893]	-2367.5	233.015	15	94
1209	SO[894]	-2382.5	106.015	15	100
1210	SO[895]	-2397.5	233.015	15	94
1211	SO[896]	-2412.5	106.015	15	100
1212	SO[897]	-2427.5	233.015	15	94
1213	SO[898]	-2442.5	106.015	15	100
1214	SO[899]	-2457.5	233.015	15	94
1215	SO[900]	-2472.5	106.015	15	100
1216	SO[901]	-2487.5	233.015	15	94
1217	SO[902]	-2502.5	106.015	15	100
1218	SO[903]	-2517.5	233.015	15	94
1219	SO[904]	-2532.5	106.015	15	100
1220	SO[905]	-2547.5	233.015	15	94
1221	SO[906]	-2562.5	106.015	15	100
1222	SO[907]	-2577.5	233.015	15	94
1223	SO[908]	-2592.5	106.015	15	100
1224	SO[909]	-2607.5	233.015	15	94
1225	SO[910]	-2622.5	106.015	15	100
1226	SO[911]	-2637.5	233.015	15	94
1227	SO[912]	-2652.5	106.015	15	100
1228	SO[913]	-2667.5	233.015	15	94
1229	SO[914]	-2682.5	106.015	15	100
1230	SO[915]	-2697.5	233.015	15	94
1231	SO[916]	-2712.5	106.015	15	100
1232	SO[917]	-2727.5	233.015	15	94
1233	SO[918]	-2742.5	106.015	15	100
1234	SO[919]	-2757.5	233.015	15	94
1235	SO[920]	-2772.5	106.015	15	100
1236	SO[921]	-2787.5	233.015	15	94
1237	SO[922]	-2802.5	106.015	15	100
1238	SO[923]	-2817.5	233.015	15	94
1239	SO[924]	-2832.5	106.015	15	100
1240	SO[925]	-2847.5	233.015	15	94
1241	SO[926]	-2862.5	106.015	15	100
1242	SO[927]	-2877.5	233.015	15	94
1243	SO[928]	-2892.5	106.015	15	100
1244	SO[929]	-2907.5	233.015	15	94
1245	SO[930]	-2922.5	106.015	15	100
1246	SO[931]	-2937.5	233.015	15	94
1247	SO[932]	-2952.5	106.015	15	100
1248	SO[933]	-2967.5	233.015	15	94
1249	SO[934]	-2982.5	106.015	15	100
1250	SO[935]	-2997.5	233.015	15	94
1251	SO[936]	-3012.5	106.015	15	100
1252	SO[937]	-3027.5	233.015	15	94
1253	SO[938]	-3042.5	106.015	15	100
1254	SO[939]	-3057.5	233.015	15	94
1255	SO[940]	-3072.5	106.015	15	100
1256	SO[941]	-3087.5	233.015	15	94
1257	SO[942]	-3102.5	106.015	15	100
1258	SO[943]	-3117.5	233.015	15	94
1259	SO[944]	-3132.5	106.015	15	100
1260	SO[945]	-3147.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1261	SO[946]	-3162.5	106.015	15	100
1262	SO[947]	-3177.5	233.015	15	94
1263	SO[948]	-3192.5	106.015	15	100
1264	SO[949]	-3207.5	233.015	15	94
1265	SO[950]	-3222.5	106.015	15	100
1266	SO[951]	-3237.5	233.015	15	94
1267	SO[952]	-3252.5	106.015	15	100
1268	SO[953]	-3267.5	233.015	15	94
1269	SO[954]	-3282.5	106.015	15	100
1270	SO[955]	-3297.5	233.015	15	94
1271	SO[956]	-3312.5	106.015	15	100
1272	SO[957]	-3327.5	233.015	15	94
1273	SO[958]	-3342.5	106.015	15	100
1274	SO[959]	-3357.5	233.015	15	94
1275	SO[960]	-3372.5	106.015	15	100
1276	SO[961]	-3387.5	233.015	15	94
1277	SO[962]	-3402.5	106.015	15	100
1278	SO[963]	-3417.5	233.015	15	94
1279	SO[964]	-3432.5	106.015	15	100
1280	SO[965]	-3447.5	233.015	15	94
1281	SO[966]	-3462.5	106.015	15	100
1282	SO[967]	-3477.5	233.015	15	94
1283	SO[968]	-3492.5	106.015	15	100
1284	SO[969]	-3507.5	233.015	15	94
1285	SO[970]	-3522.5	106.015	15	100
1286	SO[971]	-3537.5	233.015	15	94
1287	SO[972]	-3552.5	106.015	15	100
1288	SO[973]	-3567.5	233.015	15	94
1289	SO[974]	-3582.5	106.015	15	100
1290	SO[975]	-3597.5	233.015	15	94
1291	SO[976]	-3612.5	106.015	15	100
1292	SO[977]	-3627.5	233.015	15	94
1293	SO[978]	-3642.5	106.015	15	100
1294	SO[979]	-3657.5	233.015	15	94
1295	SO[980]	-3672.5	106.015	15	100
1296	SO[981]	-3687.5	233.015	15	94
1297	SO[982]	-3702.5	106.015	15	100
1298	SO[983]	-3717.5	233.015	15	94
1299	SO[984]	-3732.5	106.015	15	100
1300	SO[985]	-3747.5	233.015	15	94
1301	SO[986]	-3762.5	106.015	15	100
1302	SO[987]	-3777.5	233.015	15	94
1303	SO[988]	-3792.5	106.015	15	100
1304	SO[989]	-3807.5	233.015	15	94
1305	SO[990]	-3822.5	106.015	15	100
1306	SO[991]	-3837.5	233.015	15	94
1307	SO[992]	-3852.5	106.015	15	100
1308	SO[993]	-3867.5	233.015	15	94
1309	SO[994]	-3882.5	106.015	15	100
1310	SO[995]	-3897.5	233.015	15	94
1311	SO[996]	-3912.5	106.015	15	100
1312	SO[997]	-3927.5	233.015	15	94
1313	SO[998]	-3942.5	106.015	15	100
1314	SO[999]	-3957.5	233.015	15	94
1315	SO[1000]	-3972.5	106.015	15	100
1316	SO[1001]	-3987.5	233.015	15	94
1317	SO[1002]	-4002.5	106.015	15	100
1318	SO[1003]	-4017.5	233.015	15	94
1319	SO[1004]	-4032.5	106.015	15	100
1320	SO[1005]	-4047.5	233.015	15	94

FITIPOWER CONFIDENTIAL
FITIPOWER DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1321	SO[1006]	-4062.5	106.015	15	100
1322	SO[1007]	-4077.5	233.015	15	94
1323	SO[1008]	-4092.5	106.015	15	100
1324	SO[1009]	-4107.5	233.015	15	94
1325	SO[1010]	-4122.5	106.015	15	100
1326	SO[1011]	-4137.5	233.015	15	94
1327	SO[1012]	-4152.5	106.015	15	100
1328	SO[1013]	-4167.5	233.015	15	94
1329	SO[1014]	-4182.5	106.015	15	100
1330	SO[1015]	-4197.5	233.015	15	94
1331	SO[1016]	-4212.5	106.015	15	100
1332	SO[1017]	-4227.5	233.015	15	94
1333	SO[1018]	-4242.5	106.015	15	100
1334	SO[1019]	-4257.5	233.015	15	94
1335	SO[1020]	-4272.5	106.015	15	100
1336	SO[1021]	-4287.5	233.015	15	94
1337	SO[1022]	-4302.5	106.015	15	100
1338	SO[1023]	-4317.5	233.015	15	94
1339	SO[1024]	-4332.5	106.015	15	100
1340	SO[1025]	-4347.5	233.015	15	94
1341	SO[1026]	-4362.5	106.015	15	100
1342	SO[1027]	-4377.5	233.015	15	94
1343	SO[1028]	-4392.5	106.015	15	100
1344	SO[1029]	-4407.5	233.015	15	94
1345	SO[1030]	-4422.5	106.015	15	100
1346	SO[1031]	-4437.5	233.015	15	94
1347	SO[1032]	-4452.5	106.015	15	100
1348	SO[1033]	-4467.5	233.015	15	94
1349	SO[1034]	-4482.5	106.015	15	100
1350	SO[1035]	-4497.5	233.015	15	94
1351	SO[1036]	-4512.5	106.015	15	100
1352	SO[1037]	-4527.5	233.015	15	94
1353	SO[1038]	-4542.5	106.015	15	100
1354	SO[1039]	-4557.5	233.015	15	94
1355	SO[1040]	-4572.5	106.015	15	100
1356	SO[1041]	-4587.5	233.015	15	94
1357	SO[1042]	-4602.5	106.015	15	100
1358	SO[1043]	-4617.5	233.015	15	94
1359	SO[1044]	-4632.5	106.015	15	100
1360	SO[1045]	-4647.5	233.015	15	94
1361	SO[1046]	-4662.5	106.015	15	100
1362	SO[1047]	-4677.5	233.015	15	94
1363	SO[1048]	-4692.5	106.015	15	100
1364	SO[1049]	-4707.5	233.015	15	94
1365	SO[1050]	-4722.5	106.015	15	100
1366	SO[1051]	-4737.5	233.015	15	94
1367	SO[1052]	-4752.5	106.015	15	100
1368	SO[1053]	-4767.5	233.015	15	94
1369	SO[1054]	-4782.5	106.015	15	100
1370	SO[1055]	-4797.5	233.015	15	94
1371	SO[1056]	-4812.5	106.015	15	100
1372	SO[1057]	-4827.5	233.015	15	94
1373	SO[1058]	-4842.5	106.015	15	100
1374	SO[1059]	-4857.5	233.015	15	94
1375	SO[1060]	-4872.5	106.015	15	100
1376	SO[1061]	-4887.5	233.015	15	94
1377	SO[1062]	-4902.5	106.015	15	100
1378	SO[1063]	-4917.5	233.015	15	94
1379	SO[1064]	-4932.5	106.015	15	100
1380	SO[1065]	-4947.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1381	SO[1066]	-4962.5	106.015	15	100
1382	SO[1067]	-4977.5	233.015	15	94
1383	SO[1068]	-4992.5	106.015	15	100
1384	SO[1069]	-5007.5	233.015	15	94
1385	SO[1070]	-5022.5	106.015	15	100
1386	SO[1071]	-5037.5	233.015	15	94
1387	SO[1072]	-5052.5	106.015	15	100
1388	SO[1073]	-5067.5	233.015	15	94
1389	SO[1074]	-5082.5	106.015	15	100
1390	SO[1075]	-5097.5	233.015	15	94
1391	SO[1076]	-5112.5	106.015	15	100
1392	SO[1077]	-5127.5	233.015	15	94
1393	SO[1078]	-5142.5	106.015	15	100
1394	SO[1079]	-5157.5	233.015	15	94
1395	SO[1080]	-5172.5	106.015	15	100
1396	SO[1081]	-5187.5	233.015	15	94
1397	SO[1082]	-5202.5	106.015	15	100
1398	SO[1083]	-5217.5	233.015	15	94
1399	SO[1084]	-5232.5	106.015	15	100
1400	SO[1085]	-5247.5	233.015	15	94
1401	SO[1086]	-5262.5	106.015	15	100
1402	SO[1087]	-5277.5	233.015	15	94
1403	SO[1088]	-5292.5	106.015	15	100
1404	SO[1089]	-5307.5	233.015	15	94
1405	SO[1090]	-5322.5	106.015	15	100
1406	SO[1091]	-5337.5	233.015	15	94
1407	SO[1092]	-5352.5	106.015	15	100
1408	SO[1093]	-5367.5	233.015	15	94
1409	SO[1094]	-5382.5	106.015	15	100
1410	SO[1095]	-5397.5	233.015	15	94
1411	SO[1096]	-5412.5	106.015	15	100
1412	SO[1097]	-5427.5	233.015	15	94
1413	SO[1098]	-5442.5	106.015	15	100
1414	SO[1099]	-5457.5	233.015	15	94
1415	SO[1100]	-5472.5	106.015	15	100
1416	SO[1101]	-5487.5	233.015	15	94
1417	SO[1102]	-5502.5	106.015	15	100
1418	SO[1103]	-5517.5	233.015	15	94
1419	SO[1104]	-5532.5	106.015	15	100
1420	SO[1105]	-5547.5	233.015	15	94
1421	SO[1106]	-5562.5	106.015	15	100
1422	SO[1107]	-5577.5	233.015	15	94
1423	SO[1108]	-5592.5	106.015	15	100
1424	SO[1109]	-5607.5	233.015	15	94
1425	SO[1110]	-5622.5	106.015	15	100
1426	SO[1111]	-5637.5	233.015	15	94
1427	SO[1112]	-5652.5	106.015	15	100
1428	SO[1113]	-5667.5	233.015	15	94
1429	SO[1114]	-5682.5	106.015	15	100
1430	SO[1115]	-5697.5	233.015	15	94
1431	SO[1116]	-5712.5	106.015	15	100
1432	SO[1117]	-5727.5	233.015	15	94
1433	SO[1118]	-5742.5	106.015	15	100
1434	SO[1119]	-5757.5	233.015	15	94
1435	SO[1120]	-5772.5	106.015	15	100
1436	SO[1121]	-5787.5	233.015	15	94
1437	SO[1122]	-5802.5	106.015	15	100
1438	SO[1123]	-5817.5	233.015	15	94
1439	SO[1124]	-5832.5	106.015	15	100
1440	SO[1125]	-5847.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1441	SO[1126]	-5862.5	106.015	15	100
1442	SO[1127]	-5877.5	233.015	15	94
1443	SO[1128]	-5892.5	106.015	15	100
1444	SO[1129]	-5907.5	233.015	15	94
1445	SO[1130]	-5922.5	106.015	15	100
1446	SO[1131]	-5937.5	233.015	15	94
1447	SO[1132]	-5952.5	106.015	15	100
1448	SO[1133]	-5967.5	233.015	15	94
1449	SO[1134]	-5982.5	106.015	15	100
1450	SO[1135]	-5997.5	233.015	15	94
1451	SO[1136]	-6012.5	106.015	15	100
1452	SO[1137]	-6027.5	233.015	15	94
1453	SO[1138]	-6042.5	106.015	15	100
1454	SO[1139]	-6057.5	233.015	15	94
1455	SO[1140]	-6072.5	106.015	15	100
1456	SO[1141]	-6087.5	233.015	15	94
1457	SO[1142]	-6102.5	106.015	15	100
1458	SO[1143]	-6117.5	233.015	15	94
1459	SO[1144]	-6132.5	106.015	15	100
1460	SO[1145]	-6147.5	233.015	15	94
1461	SO[1146]	-6162.5	106.015	15	100
1462	SO[1147]	-6177.5	233.015	15	94
1463	SO[1148]	-6192.5	106.015	15	100
1464	SO[1149]	-6207.5	233.015	15	94
1465	SO[1150]	-6222.5	106.015	15	100
1466	SO[1151]	-6237.5	233.015	15	94
1467	SO[1152]	-6252.5	106.015	15	100
1468	SO[1153]	-6267.5	233.015	15	94
1469	SO[1154]	-6282.5	106.015	15	100
1470	SO[1155]	-6297.5	233.015	15	94
1471	SO[1156]	-6312.5	106.015	15	100
1472	SO[1157]	-6327.5	233.015	15	94
1473	SO[1158]	-6342.5	106.015	15	100
1474	SO[1159]	-6357.5	233.015	15	94
1475	SO[1160]	-6372.5	106.015	15	100
1476	SO[1161]	-6387.5	233.015	15	94
1477	SO[1162]	-6402.5	106.015	15	100
1478	SO[1163]	-6417.5	233.015	15	94
1479	SO[1164]	-6432.5	106.015	15	100
1480	SO[1165]	-6447.5	233.015	15	94
1481	SO[1166]	-6462.5	106.015	15	100
1482	SO[1167]	-6477.5	233.015	15	94
1483	SO[1168]	-6492.5	106.015	15	100
1484	SO[1169]	-6507.5	233.015	15	94
1485	SO[1170]	-6522.5	106.015	15	100
1486	SO[1171]	-6537.5	233.015	15	94
1487	SO[1172]	-6552.5	106.015	15	100
1488	SO[1173]	-6567.5	233.015	15	94
1489	SO[1174]	-6582.5	106.015	15	100
1490	SO[1175]	-6597.5	233.015	15	94
1491	SO[1176]	-6612.5	106.015	15	100
1492	SO[1177]	-6627.5	233.015	15	94
1493	SO[1178]	-6642.5	106.015	15	100
1494	SO[1179]	-6657.5	233.015	15	94
1495	SO[1180]	-6672.5	106.015	15	100
1496	SO[1181]	-6687.5	233.015	15	94
1497	SO[1182]	-6702.5	106.015	15	100
1498	SO[1183]	-6717.5	233.015	15	94
1499	SO[1184]	-6732.5	106.015	15	100
1500	SO[1185]	-6747.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1501	SO[1186]	-6762.5	106.015	15	100
1502	SO[1187]	-6777.5	233.015	15	94
1503	SO[1188]	-6792.5	106.015	15	100
1504	SO[1189]	-6807.5	233.015	15	94
1505	SO[1190]	-6822.5	106.015	15	100
1506	SO[1191]	-6837.5	233.015	15	94
1507	SO[1192]	-6852.5	106.015	15	100
1508	SO[1193]	-6867.5	233.015	15	94
1509	SO[1194]	-6882.5	106.015	15	100
1510	SO[1195]	-6897.5	233.015	15	94
1511	SO[1196]	-6912.5	106.015	15	100
1512	SO[1197]	-6927.5	233.015	15	94
1513	SO[1198]	-6942.5	106.015	15	100
1514	SO[1199]	-6957.5	233.015	15	94
1515	SO[1200]	-6972.5	106.015	15	100
1516	SO[1201]	-6987.5	233.015	15	94
1517	SO[1202]	-7002.5	106.015	15	100
1518	SO[1203]	-7017.5	233.015	15	94
1519	SO[1204]	-7032.5	106.015	15	100
1520	SO[1205]	-7047.5	233.015	15	94
1521	SO[1206]	-7062.5	106.015	15	100
1522	SO[1207]	-7077.5	233.015	15	94
1523	SO[1208]	-7092.5	106.015	15	100
1524	SO[1209]	-7107.5	233.015	15	94
1525	SO[1210]	-7122.5	106.015	15	100
1526	SO[1211]	-7137.5	233.015	15	94
1527	SO[1212]	-7152.5	106.015	15	100
1528	SO[1213]	-7167.5	233.015	15	94
1529	SO[1214]	-7182.5	106.015	15	100
1530	SO[1215]	-7197.5	233.015	15	94
1531	SO[1216]	-7212.5	106.015	15	100
1532	SO[1217]	-7227.5	233.015	15	94
1533	SO[1218]	-7242.5	106.015	15	100
1534	SO[1219]	-7257.5	233.015	15	94
1535	SO[1220]	-7272.5	106.015	15	100
1536	SO[1221]	-7287.5	233.015	15	94
1537	SO[1222]	-7302.5	106.015	15	100
1538	SO[1223]	-7317.5	233.015	15	94
1539	SO[1224]	-7332.5	106.015	15	100
1540	SO[1225]	-7347.5	233.015	15	94
1541	SO[1226]	-7362.5	106.015	15	100
1542	SO[1227]	-7377.5	233.015	15	94
1543	SO[1228]	-7392.5	106.015	15	100
1544	SO[1229]	-7407.5	233.015	15	94
1545	SO[1230]	-7422.5	106.015	15	100
1546	SO[1231]	-7437.5	233.015	15	94
1547	SO[1232]	-7452.5	106.015	15	100
1548	SO[1233]	-7467.5	233.015	15	94
1549	SO[1234]	-7482.5	106.015	15	100
1550	SO[1235]	-7497.5	233.015	15	94
1551	SO[1236]	-7512.5	106.015	15	100
1552	SO[1237]	-7527.5	233.015	15	94
1553	SO[1238]	-7542.5	106.015	15	100
1554	SO[1239]	-7557.5	233.015	15	94
1555	SO[1240]	-7572.5	106.015	15	100
1556	SO[1241]	-7587.5	233.015	15	94
1557	SO[1242]	-7602.5	106.015	15	100
1558	SO[1243]	-7617.5	233.015	15	94
1559	SO[1244]	-7632.5	106.015	15	100
1560	SO[1245]	-7647.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1561	SO[1246]	-7662.5	106.015	15	100
1562	SO[1247]	-7677.5	233.015	15	94
1563	SO[1248]	-7692.5	106.015	15	100
1564	SO[1249]	-7707.5	233.015	15	94
1565	SO[1250]	-7722.5	106.015	15	100
1566	SO[1251]	-7737.5	233.015	15	94
1567	SO[1252]	-7752.5	106.015	15	100
1568	SO[1253]	-7767.5	233.015	15	94
1569	SO[1254]	-7782.5	106.015	15	100
1570	SO[1255]	-7797.5	233.015	15	94
1571	SO[1256]	-7812.5	106.015	15	100
1572	SO[1257]	-7827.5	233.015	15	94
1573	SO[1258]	-7842.5	106.015	15	100
1574	SO[1259]	-7857.5	233.015	15	94
1575	SO[1260]	-7872.5	106.015	15	100
1576	SO[1261]	-7887.5	233.015	15	94
1577	SO[1262]	-7902.5	106.015	15	100
1578	SO[1263]	-7917.5	233.015	15	94
1579	SO[1264]	-7932.5	106.015	15	100
1580	SO[1265]	-7947.5	233.015	15	94
1581	SO[1266]	-7962.5	106.015	15	100
1582	SO[1267]	-7977.5	233.015	15	94
1583	SO[1268]	-7992.5	106.015	15	100
1584	SO[1269]	-8007.5	233.015	15	94
1585	SO[1270]	-8022.5	106.015	15	100
1586	SO[1271]	-8037.5	233.015	15	94
1587	SO[1272]	-8052.5	106.015	15	100
1588	SO[1273]	-8067.5	233.015	15	94
1589	SO[1274]	-8082.5	106.015	15	100
1590	SO[1275]	-8097.5	233.015	15	94
1591	SO[1276]	-8112.5	106.015	15	100
1592	SO[1277]	-8127.5	233.015	15	94
1593	SO[1278]	-8142.5	106.015	15	100
1594	SO[1279]	-8157.5	233.015	15	94
1595	SO[1280]	-8172.5	106.015	15	100
1596	SO[1281]	-8187.5	233.015	15	94
1597	SO[1282]	-8202.5	106.015	15	100
1598	SO[1283]	-8217.5	233.015	15	94
1599	SO[1284]	-8232.5	106.015	15	100
1600	SO[1285]	-8247.5	233.015	15	94
1601	SO[1286]	-8262.5	106.015	15	100
1602	SO[1287]	-8277.5	233.015	15	94
1603	SO[1288]	-8292.5	106.015	15	100
1604	SO[1289]	-8307.5	233.015	15	94
1605	SO[1290]	-8322.5	106.015	15	100
1606	SO[1291]	-8337.5	233.015	15	94
1607	SO[1292]	-8352.5	106.015	15	100
1608	SO[1293]	-8367.5	233.015	15	94
1609	SO[1294]	-8382.5	106.015	15	100
1610	SO[1295]	-8397.5	233.015	15	94
1611	SO[1296]	-8412.5	106.015	15	100
1612	SO[1297]	-8427.5	233.015	15	94
1613	SO[1298]	-8442.5	106.015	15	100
1614	SO[1299]	-8457.5	233.015	15	94
1615	SO[1300]	-8472.5	106.015	15	100
1616	SO[1301]	-8487.5	233.015	15	94
1617	SO[1302]	-8502.5	106.015	15	100
1618	SO[1303]	-8517.5	233.015	15	94
1619	SO[1304]	-8532.5	106.015	15	100
1620	SO[1305]	-8547.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1621	SO[1306]	-8562.5	106.015	15	100
1622	SO[1307]	-8577.5	233.015	15	94
1623	SO[1308]	-8592.5	106.015	15	100
1624	SO[1309]	-8607.5	233.015	15	94
1625	SO[1310]	-8622.5	106.015	15	100
1626	SO[1311]	-8637.5	233.015	15	94
1627	SO[1312]	-8652.5	106.015	15	100
1628	SO[1313]	-8667.5	233.015	15	94
1629	SO[1314]	-8682.5	106.015	15	100
1630	SO[1315]	-8697.5	233.015	15	94
1631	SO[1316]	-8712.5	106.015	15	100
1632	SO[1317]	-8727.5	233.015	15	94
1633	SO[1318]	-8742.5	106.015	15	100
1634	SO[1319]	-8757.5	233.015	15	94
1635	SO[1320]	-8772.5	106.015	15	100
1636	SO[1321]	-8787.5	233.015	15	94
1637	SO[1322]	-8802.5	106.015	15	100
1638	SO[1323]	-8817.5	233.015	15	94
1639	SO[1324]	-8832.5	106.015	15	100
1640	SO[1325]	-8847.5	233.015	15	94
1641	SO[1326]	-8862.5	106.015	15	100
1642	SO[1327]	-8877.5	233.015	15	94
1643	SO[1328]	-8892.5	106.015	15	100
1644	SO[1329]	-8907.5	233.015	15	94
1645	SO[1330]	-8922.5	106.015	15	100
1646	SO[1331]	-8937.5	233.015	15	94
1647	SO[1332]	-8952.5	106.015	15	100
1648	SO[1333]	-8967.5	233.015	15	94
1649	SO[1334]	-8982.5	106.015	15	100
1650	SO[1335]	-8997.5	233.015	15	94
1651	SO[1336]	-9012.5	106.015	15	100
1652	SO[1337]	-9027.5	233.015	15	94
1653	SO[1338]	-9042.5	106.015	15	100
1654	SO[1339]	-9057.5	233.015	15	94
1655	SO[1340]	-9072.5	106.015	15	100
1656	SO[1341]	-9087.5	233.015	15	94
1657	SO[1342]	-9102.5	106.015	15	100
1658	SO[1343]	-9117.5	233.015	15	94
1659	SO[1344]	-9132.5	106.015	15	100
1660	SO[1345]	-9147.5	233.015	15	94
1661	SO[1346]	-9162.5	106.015	15	100
1662	SO[1347]	-9177.5	233.015	15	94
1663	SO[1348]	-9192.5	106.015	15	100
1664	SO[1349]	-9207.5	233.015	15	94
1665	SO[1350]	-9222.5	106.015	15	100
1666	SO[1351]	-9237.5	233.015	15	94
1667	SO[1352]	-9252.5	106.015	15	100
1668	SO[1353]	-9267.5	233.015	15	94
1669	SO[1354]	-9282.5	106.015	15	100
1670	SO[1355]	-9297.5	233.015	15	94
1671	SO[1356]	-9312.5	106.015	15	100
1672	SO[1357]	-9327.5	233.015	15	94
1673	SO[1358]	-9342.5	106.015	15	100
1674	SO[1359]	-9357.5	233.015	15	94
1675	SO[1360]	-9372.5	106.015	15	100
1676	SO[1361]	-9387.5	233.015	15	94
1677	SO[1362]	-9402.5	106.015	15	100
1678	SO[1363]	-9417.5	233.015	15	94
1679	SO[1364]	-9432.5	106.015	15	100
1680	SO[1365]	-9447.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1681	SO[1366]	-9462.5	106.015	15	100
1682	SO[1367]	-9477.5	233.015	15	94
1683	SO[1368]	-9492.5	106.015	15	100
1684	SO[1369]	-9507.5	233.015	15	94
1685	SO[1370]	-9522.5	106.015	15	100
1686	SO[1371]	-9537.5	233.015	15	94
1687	SO[1372]	-9552.5	106.015	15	100
1688	SO[1373]	-9567.5	233.015	15	94
1689	SO[1374]	-9582.5	106.015	15	100
1690	SO[1375]	-9597.5	233.015	15	94
1691	SO[1376]	-9612.5	106.015	15	100
1692	SO[1377]	-9627.5	233.015	15	94
1693	SO[1378]	-9642.5	106.015	15	100
1694	SO[1379]	-9657.5	233.015	15	94
1695	SO[1380]	-9672.5	106.015	15	100
1696	SO[1381]	-9687.5	233.015	15	94
1697	SO[1382]	-9702.5	106.015	15	100
1698	SO[1383]	-9717.5	233.015	15	94
1699	SO[1384]	-9732.5	106.015	15	100
1700	SO[1385]	-9747.5	233.015	15	94
1701	SO[1386]	-9762.5	106.015	15	100
1702	SO[1387]	-9777.5	233.015	15	94
1703	SO[1388]	-9792.5	106.015	15	100
1704	SO[1389]	-9807.5	233.015	15	94
1705	SO[1390]	-9822.5	106.015	15	100
1706	SO[1391]	-9837.5	233.015	15	94
1707	SO[1392]	-9852.5	106.015	15	100
1708	SO[1393]	-9867.5	233.015	15	94
1709	SO[1394]	-9882.5	106.015	15	100
1710	SO[1395]	-9897.5	233.015	15	94
1711	SO[1396]	-9912.5	106.015	15	100
1712	SO[1397]	-9927.5	233.015	15	94
1713	SO[1398]	-9942.5	106.015	15	100
1714	SO[1399]	-9957.5	233.015	15	94
1715	SO[1400]	-9972.5	106.015	15	100
1716	SO[1401]	-9987.5	233.015	15	94
1717	SO[1402]	-10002.5	106.015	15	100
1718	SO[1403]	-10017.5	233.015	15	94
1719	SO[1404]	-10032.5	106.015	15	100
1720	SO[1405]	-10047.5	233.015	15	94
1721	SO[1406]	-10062.5	106.015	15	100
1722	SO[1407]	-10077.5	233.015	15	94
1723	SO[1408]	-10092.5	106.015	15	100
1724	SO[1409]	-10107.5	233.015	15	94
1725	SO[1410]	-10122.5	106.015	15	100
1726	SO[1411]	-10137.5	233.015	15	94
1727	SO[1412]	-10152.5	106.015	15	100
1728	SO[1413]	-10167.5	233.015	15	94
1729	SO[1414]	-10182.5	106.015	15	100
1730	SO[1415]	-10197.5	233.015	15	94
1731	SO[1416]	-10212.5	106.015	15	100
1732	SO[1417]	-10227.5	233.015	15	94
1733	SO[1418]	-10242.5	106.015	15	100
1734	SO[1419]	-10257.5	233.015	15	94
1735	SO[1420]	-10272.5	106.015	15	100
1736	SO[1421]	-10287.5	233.015	15	94
1737	SO[1422]	-10302.5	106.015	15	100
1738	SO[1423]	-10317.5	233.015	15	94
1739	SO[1424]	-10332.5	106.015	15	100
1740	SO[1425]	-10347.5	233.015	15	94

Pad Num	Pad name	X	Y	W	H
1741	SO[1426]	-10362.5	106.015	15	100
1742	SO[1427]	-10377.5	233.015	15	94
1743	SO[1428]	-10392.5	106.015	15	100
1744	SO[1429]	-10407.5	233.015	15	94
1745	SO[1430]	-10422.5	106.015	15	100
1746	SO[1431]	-10437.5	233.015	15	94
1747	SO[1432]	-10452.5	106.015	15	100
1748	SO[1433]	-10467.5	233.015	15	94
1749	SO[1434]	-10482.5	106.015	15	100
1750	SO[1435]	-10497.5	233.015	15	94
1751	SO[1436]	-10512.5	106.015	15	100
1752	SO[1437]	-10527.5	233.015	15	94
1753	SO[1438]	-10542.5	106.015	15	100
1754	SO[1439]	-10557.5	233.015	15	94
1755	SO[1440]	-10572.5	106.015	15	100
1756	SO[1441]	-10587.5	233.015	15	94
1757	SO[1442]	-10602.5	106.015	15	100
1758	SO[1443]	-10617.5	233.015	15	94
1759	SO[1444]	-10632.5	106.015	15	100
1760	SO[1445]	-10647.5	233.015	15	94
1761	SO[1446]	-10662.5	106.015	15	100
1762	SO[1447]	-10677.5	233.015	15	94
1763	SO[1448]	-10692.5	106.015	15	100
1764	SO[1449]	-10707.5	233.015	15	94
1765	SO[1450]	-10722.5	106.015	15	100
1766	SO[1451]	-10737.5	233.015	15	94
1767	SO[1452]	-10752.5	106.015	15	100
1768	SO[1453]	-10767.5	233.015	15	94
1769	SO[1454]	-10782.5	106.015	15	100
1770	SO[1455]	-10797.5	233.015	15	94
1771	SO[1456]	-10812.5	106.015	15	100
1772	SO[1457]	-10827.5	233.015	15	94
1773	SO[1458]	-10842.5	106.015	15	100
1774	SO[1459]	-10857.5	233.015	15	94
1775	SO[1460]	-10872.5	106.015	15	100
1776	SO[1461]	-10887.5	233.015	15	94
1777	SO[1462]	-10902.5	106.015	15	100
1778	SO[1463]	-10917.5	233.015	15	94
1779	SO[1464]	-10932.5	106.015	15	100
1780	SO[1465]	-10947.5	233.015	15	94
1781	SO[1466]	-10962.5	106.015	15	100
1782	SO[1467]	-10977.5	233.015	15	94
1783	SO[1468]	-10992.5	106.015	15	100
1784	SO[1469]	-11007.5	233.015	15	94
1785	SO[1470]	-11022.5	106.015	15	100
1786	SO[1471]	-11037.5	233.015	15	94
1787	SO[1472]	-11052.5	106.015	15	100
1788	SO[1473]	-11067.5	233.015	15	94
1789	SO[1474]	-11082.5	106.015	15	100
1790	SO[1475]	-11097.5	233.015	15	94
1791	SO[1476]	-11112.5	106.015	15	100
1792	SO[1477]	-11127.5	233.015	15	94
1793	SO[1478]	-11142.5	106.015	15	100
1794	SO[1479]	-11157.5	233.015	15	94
1795	SO[1480]	-11172.5	106.015	15	100
1796	SO[1481]	-11187.5	233.015	15	94
1797	SO[1482]	-11202.5	106.015	15	100
1798	SO[1483]	-11217.5	233.015	15	94
1799	SO[1484]	-11232.5	106.015	15	100
1800	SO[1485]	-11247.5	233.015	15	94

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Pad Num	Pad name	X	Y	W	H
1801	SO[1486]	-11262.5	106.015	15	100
1802	SO[1487]	-11277.5	233.015	15	94
1803	SO[1488]	-11292.5	106.015	15	100
1804	SO[1489]	-11307.5	233.015	15	94
1805	SO[1490]	-11322.5	106.015	15	100
1806	SO[1491]	-11337.5	233.015	15	94
1807	SO[1492]	-11352.5	106.015	15	100
1808	SO[1493]	-11367.5	233.015	15	94
1809	SO[1494]	-11382.5	106.015	15	100
1810	SO[1495]	-11397.5	233.015	15	94
1811	SO[1496]	-11412.5	106.015	15	100
1812	SO[1497]	-11427.5	233.015	15	94
1813	SO[1498]	-11442.5	106.015	15	100
1814	SO[1499]	-11457.5	233.015	15	94
1815	SO[1500]	-11472.5	106.015	15	100
1816	SO[1501]	-11487.5	233.015	15	94
1817	SO[1502]	-11502.5	106.015	15	100
1818	SO[1503]	-11517.5	233.015	15	94
1819	SO[1504]	-11532.5	106.015	15	100
1820	SO[1505]	-11547.5	233.015	15	94
1821	SO[1506]	-11562.5	106.015	15	100
1822	SO[1507]	-11577.5	233.015	15	94
1823	SO[1508]	-11592.5	106.015	15	100
1824	SO[1509]	-11607.5	233.015	15	94
1825	SO[1510]	-11622.5	106.015	15	100
1826	SO[1511]	-11637.5	233.015	15	94
1827	SO[1512]	-11652.5	106.015	15	100
1828	SO[1513]	-11667.5	233.015	15	94
1829	SO[1514]	-11682.5	106.015	15	100
1830	SO[1515]	-11697.5	233.015	15	94
1831	SO[1516]	-11712.5	106.015	15	100
1832	SO[1517]	-11727.5	233.015	15	94
1833	SO[1518]	-11742.5	106.015	15	100
1834	SO[1519]	-11757.5	233.015	15	94
1835	SO[1520]	-11772.5	106.015	15	100
1836	SO[1521]	-11787.5	233.015	15	94
1837	SO[1522]	-11802.5	106.015	15	100
1838	SO[1523]	-11817.5	233.015	15	94
1839	SO[1524]	-11832.5	106.015	15	100
1840	SO[1525]	-11847.5	233.015	15	94
1841	SO[1526]	-11862.5	106.015	15	100
1842	SO[1527]	-11877.5	233.015	15	94
1843	SO[1528]	-11892.5	106.015	15	100
1844	SO[1529]	-11907.5	233.015	15	94
1845	SO[1530]	-11922.5	106.015	15	100
1846	SO[1531]	-11937.5	233.015	15	94
1847	SO[1532]	-11952.5	106.015	15	100
1848	SO[1533]	-11967.5	233.015	15	94
1849	SO[1534]	-11982.5	106.015	15	100
1850	SO[1535]	-11997.5	233.015	15	94
1851	SO[1536]	-12012.5	106.015	15	100
1852	SHIELDING	-12055	248.015	30	64
1853	COM1_OUT	-12105	248.015	30	64
1854	COM1_OUT	-12155	248.015	30	64
1855	SHIELDING	-12205	248.015	30	64
1856	F_CtrlR	-12393.4	268.015	60.8	24
1857	OEVR	-12303	231.015	80	30
1858	SYNC1R	-12393.4	191.015	60.8	30
1859	SYNC2R	-12303	151.015	80	30
1860	UDR	-12393.4	111.015	60.8	30

Pad Num	Pad name	X	Y	W	H
1861	CKVR	-12303	71.015	80	30
1862	STV2R	-12393.4	31.015	60.8	30
1863	STV1R	-12303	-8.985	80	30
1864	F_CtrlR	-12393.4	-48.985	60.8	30
1865	STBNR	-12303	-88.985	80	30

ALM_L	-12131.5	108.515
ALM_R	12131.5	108.515

FITIPOWER CONFIDENTIAL
DISCLOSURE

10. DEFINITIONS

10.1. Data Sheet Status

Preliminary Data Sheet	This data sheet contains preliminary data; supplementary data may be published later.
Data Sheet	This data sheet contains final product specifications.

Contents in the document are subject to change without notice.

10.2. Life Support Application

These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Fitipower customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify fitipower for any damages resulting from such improper use or sale.

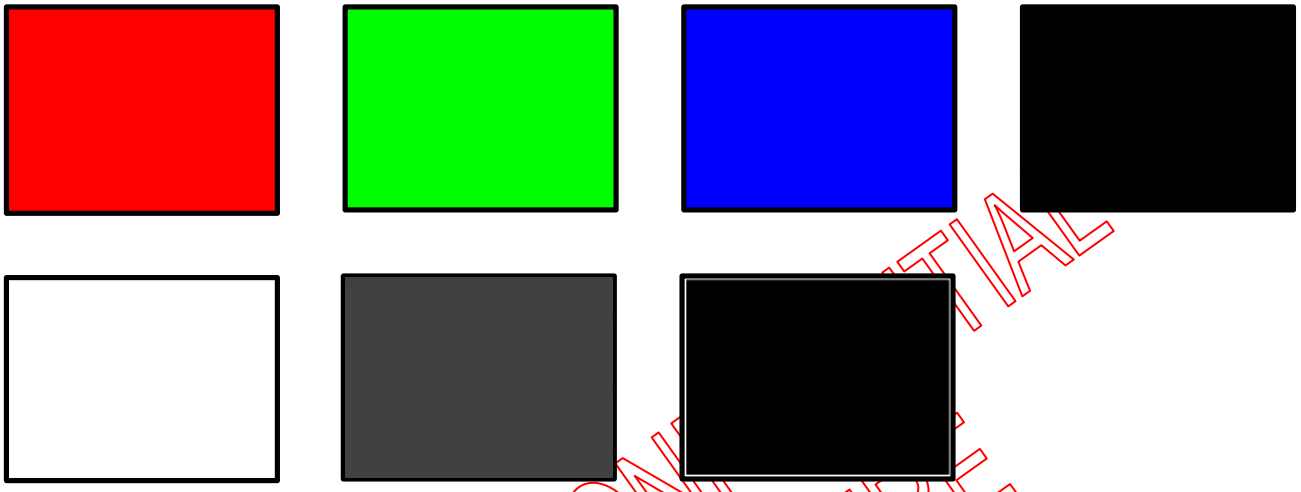
11. REVISION HISTORY

Reversion	Content	Date
1.0	New Issue.	2023/06/16
1.1	Modify Operating temperature -30~85℃	2023/07/13
1.2	Modify wiring resistance(page13)	2024/09/26
1.2	Add Power-On/Off Timing Sequence for LVDS Interface(page17)	2024/09/26
1.2	Modify LVDS DC characteristic(page29)	2024/09/26
1.2	Modify Power-On/Off Timing Sequence for TTL Interface(page16)	2024/09/26
1.3	Modify Power-On/Off Sequence for TTL and LVDS interface(page16)	2025/02/19
1.4	Modify LVDS DC characteristics(page28)	2025/02/20
1.6	Mody Power On Timing Sequence	2025/06/16

FITIPOWER CONFIDENTIAL
NO DISCLOSURE

Appendix A : BIST pattern

R→G→B→Black→White→Flicker pattern→Black background with white out frame



FITIPOWER CONFIDENTIAL
NO DISCLOSURE