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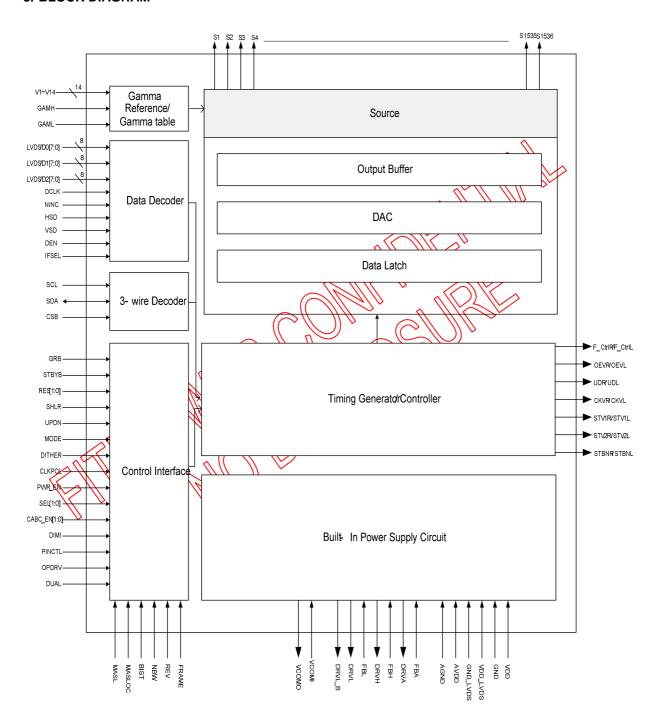
Single Chip 1536 Channel Source Driver with Timing Controller for 1024RGB × 600 TFT LCD

1. GENERAL DESCRIPTION

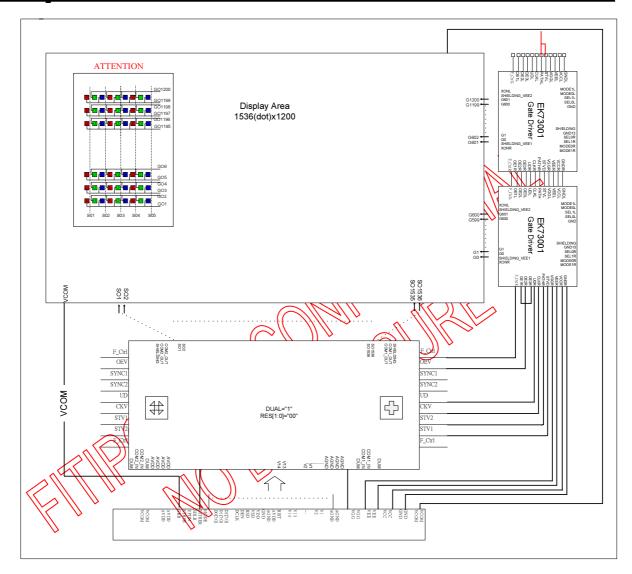
The EK79001 is a highly integrated solution for small size to middle size a-Si TFT-LCD panels. This chip integrates 1536ch dual gate mode source driver with LVDS and parallel RGB input interface.

2. FEATURES

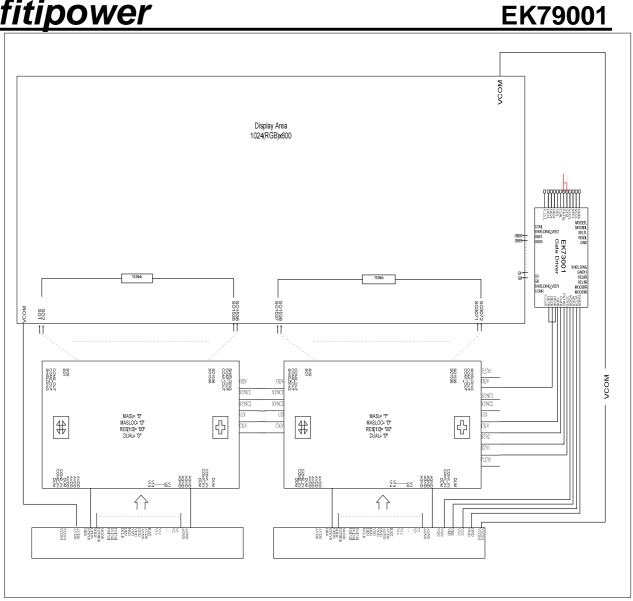
- Special design for 1024RGBx600 TFT LCD Panel with LVDS/TTL intertace
- Integrate 1536 channel source driver with single or dual gate function
- Support cascade function with bidirectional shift control (CMOS signal)
- Support panel resolution (HxV) : 1024(RGB) x 768 , 1024(RGB) x 600 , 800(RGB) x 600 , 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 PWM controller for (WDD), Charge pump for WGH (VGH, and VCOM buffer
- Built-In CABC function
- Built-In AUTO pattern
- Built-In SDRRS function
- Support no clock) detection
- COG package
- Chip size \ 25000 um x 7000 m
- Output bump pitch = 15um



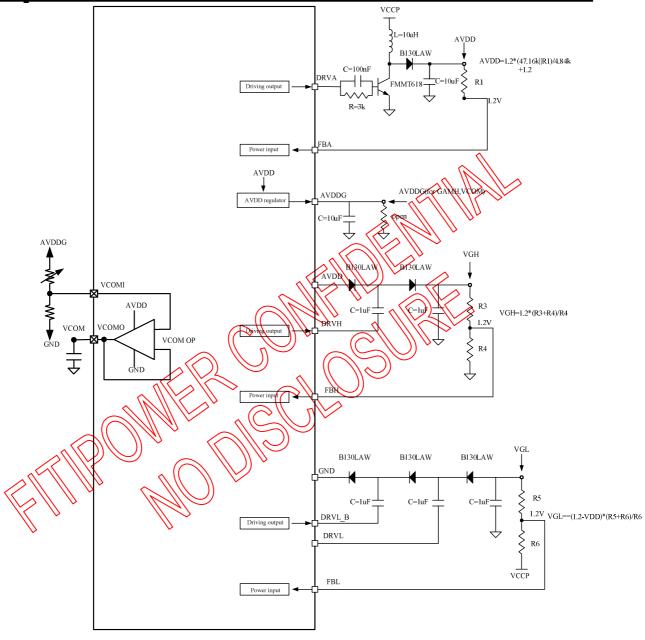
Block Diagram



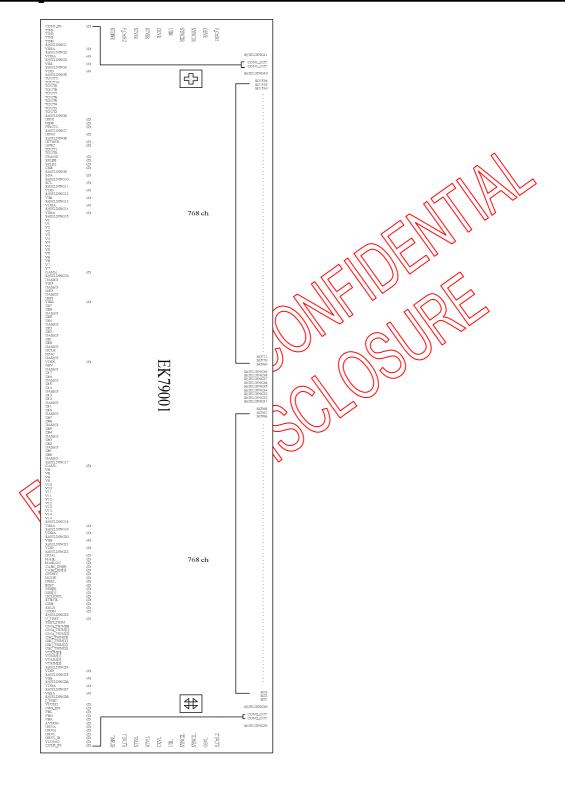
Application Block Diagram-Dual Gate Application



Application Block Diagram-Cascade Application



Application Power Circuit



Pad Sequence(Bump Side)



Pin Description

Pin Description Pin Name	Pin Type		Description					
! ! !	, , , ,	LVDS or Parallel RGB	•	FSFL" nin				
		Pin name	LVDS input mode					
		Tilliano	TTL input mode IFSEL="L"	IFSEL="H"				
		D2[0],D2[1]	B[0],B[1]	NIND0,PIND0				
		D2[2],D2[3]	B[2],B[3]	NIND1,PIND1				
		D2[4],D2[5]	B[4],B[5]	NIND2,PIND2				
		D2[6],D2[7]	B[6],B[7]	NIMD3,PIND3				
		LVDS 6 bit data input :						
D07~D00		D[07:00] = R[7:0] data;	D[17:10] = 6[7:0] data	; D[27:20] = B[7:0] data.				
D17~D10 D27~D20	Input	For 18bit RGB interface						
D21~D20		buses to GND.						
		Note : D07~D00 -× 80	1, \$04) SO1531 ,	SO1534				
		D17~D10 + \$0	2, \$05 SQ1532,	SO1535				
		D27-D20->50	13 , SO6 (\.\SO\2533)	9 O1536				
			relation between RGB	data and Color Filter				
		sequence						
		Note: For LVDS interf	ace, it's necessary to	put on external				
		Note: For LVDS interface, it's necessary to put on external terminal resistor (on FPC of PCB board) between NIND0/PIND0, NIND1/PIND1, NIND2/PIND2, NIND3/PIND3, NINC/PINC.						
	1111M D	Clock Input pin for LVDS or TTL mode. Select by "IFSEL" pin						
		Pin name	TTL input mode	LVDS input mode				
DCKK	Input	11 2611	IFSEL="L"	IFSEL="H"				
DCA	Input	Note: For LVDS interf	DCLK	PINC PINC				
	M_{\sim}	terminal resistor(on F	PC or PCB board) be	tween NIND0/PIND0,				
	100	≝MIND1/PIND1, NIND2/						
		Negative LVDS differer	ntial clock input.					
NINC	Input	Note: For LVDS interf						
		terminal resistor(on FPC or PCB board) between NIND0/PIND0, NIND1/PIND1, NIND2/PIND2, NIND3/PIND3, NINC/PINC.						
		Horizontal Sync input for						
		(In LVDS interface con						
HSD	Input	HSD="L":8 bit						
		HSD="H":6 bit)						
VSD	Input	Vertical Sync input for	• .	•				
	-	(In LVDS Interface, co						
DEN	Input	Data Input Enable. Active High to enable the data input bus undo Mode". Normally pull low.						
		DE / SYNC mode selec		rmally pull high				
MODE	Input	H: DE mode.		-				
		L : HSD/VSD mode.						
IFSEL	Input	IFSEL = L : TTL interfa						
	·	IFSEL = H : LVDS inter	iace					

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		LI(73001
Pin Name	Pin Type	Description
		RES[1:0]="01",for 1024(RGB)*768 display resolution(dual or cascade) RES[1:0]="00",for1024(RGB)*600 display resolution(dual or cascade (Default)
RES[1:0]	Input	RES[1:0]="10",for 800(RGB)*600 display resolution(dual or cascade) (601~936 channel disable)
		RES[1:0]="11", for 800(RGB)*480 display resolution(dual or cascade) (601~936 channel disable)
DITHER	Input	Dithering function enable control. Normally pull low In LVDS 6-bit mode, IC don't care DITHER and HERE setting. DITHER = "1", Enable internal dithering function DITHER = "0", Disable internal dithering function. If in LVDS 8-bit or TTL mode, IC will bypass DOMDON 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	Dual Cate function enables control Normally pull high DUAL = "1", Enable Dual Gate Function. (Default) DUAL = "0", Disable Dual Cate Function Note: Cascade function will be disabled under "dual gate" mode!!
K1+V14	Input	When WERNAL Gamma Table is used. GAMH tied to AVDDG, 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.< td=""></v14<v13<v12<v11<v10<v9<v8;v7<v6<v5<v4<v3<v2<v1<avdd.<>
GAMH	Input	When using INTERNAL Gamma Table , tied to AVDDG . 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 pulled high. STBYB = "1",normal operation STBYB = "0", timing controller, source driver will turn off, all output are High-Z
MASL	Input	Master and Slave Mode selection. Normally pull high. MASL = "H", for Master mode. (Default Mode) MASL = "L", for Slave mode. Only the Master chip will issue the Gate and Cascade control signal.
MASLOC	Input	Master location definition pin. Normally pull low. MASLOC = "L", Master locate on right side (Panel top view). (Default Mode) MASLOC = "H", Master locate on left side (Panel top view).

		LI(13001						
Pin Name	Pin Type	Description						
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.						
BIST	Input	Normal Operation/BIST pattern select Normally pull low BIST = H : BIST(DCLK input is not needed) BIST = L : Normal Operation						
NBW	Input	Normally black or normally white setting. Normally pulled low. NBW = H : Normally black NBW = L : Normally white						
REV	Input	Controls whether the data of 200~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.						
FRAME	Input	Frame inverse or not select. Normally pull low. FRAME = "1", Uniform FRAME = "0" Frame inverse (Default)						
	11/11/11/20	Sate on seguence select. Normally pull low						
	J/11/11/11/2	SEL[0] SEL[1] Pin control function						
	11/1/11	7 Z+2						
SELPTO	○ Input ○							
	11112)) 0 1 z						
	11/4/	0 0 Z(default)						
OEVR/OEVL	Output	Gate driver control signal (CABC and BIST sync control)						
SYNC1R/SYNC1L	Output	CABC and BIST sync control						
SYNC2R/SYNC2L	Output	CABC and BIST sync control						
UDR/UDL	Output	Gate driver control signal (CABC and BIST sync control)						
CKVR/CKVL	Output	Gate driver control signal (CABC and BIST sync control)						
STV1R/STV1L	Output	Gate driver control signal						
STV2R/STV2L	Output	Gate driver control signal						
STBNR/STBNL	Output	Gate driver control signal						
		Gate driver control signal (For special Gate on sequence).						
F_CtrlR/F_CtrlL	Output	NOTE : In Cascade structure, let this pin floating.						
I _Ount/I _OulL	Ουιραί	In Dual Gate structure, connect this pin to gate driver's F_Ctrl. And						
		setting gate driver's SEL[1:0] to "00".						
CABC_EN[1:0]	Input	CABC H/W enable pin. Normally pull low. When CABC_EN="00", CABC OFF. (Default mode) When CABC_EN="01", User interface Image. When CABC_EN="10", Still Picture. When CABC_EN="11", Moving Image.						
DIMI	Input	Brightness control signal. Normally pull high.						

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Pin Name	Pin Type	Description
		Backlight dimmer signal for external controller.
		DIMO = "0", Turn off external backlight controller
DU140	• • •	DIMO = "1", Logical control signal to turn on external backlight
DIMO	Output	controller
		NOTE : If CABC OFF , DIMO = DIMI .
		Else DIMO is controlled by CABC
		Enable pin control function. Normally pull high
		PINCTL="0", Disable pin control function.
		The following pin will be inactive:
PINCTL	Input	MODE,RES[1:0],DITHER,HFRC,DCLKPOL,SHLR, UPDN,BIST,NBW,
		FRAME,SEL[1:0],CABC_EN[1:0],ORORV,PWR_EN.
		PINCTL="1", Enable pin contrection.
		NOTE: The related 3-wire control register bit control will be disabled
		under PINCTL="1".
		Source OP driving selection. Normally pultlow
OPDRV	Input	OPDRV = H : 133%
		OPDRV = L: normal
CSB	Input	Serial communication chip select. Normally pull low
SDA	Input/Output	Serial communication data input. Normally pull low
SCL	Input	Serial communication clock input. Normally pull low
AVDD	PI	Power supply for analog circuits
AGND	R(Ground pins for analog circuits
VDD	PA	Power supply for digital circuits
GND		Ground rins for digital circuits
VDD_LVDS	11/1/1/10	LVBS power
GND_LVRS))) ři	LVDS ground
		POWER enable. Normally pull low
RWR_EN\\\	Input\\	PWR_EN = H, enable PWM, Charge pump and VCOM buffer
		PWR_EN = L , disable PWM , Charge pump and VCOM buffer
FBA	W	PWM controller feedback input. (for AVDD)
DRVA	Output	PWM output driver signal for the boost converter (for AVDD)
FBH	VI	Charge Pump controller feedback input. (for VGH)
DRVH	Output	Charge Pump driver signal for the boost converter (for VGH)
FBL	VI	Charge Pump controller feedback input. (for VGL)
DRVL	Output	Charge Pump driver signal for the boost converter (for VGL)
DRVL_B	Output	Inverse of DRVL(for VGL)
VCOMI	Input	VCOM buffer in
VCOMO	Output	VCOM buffer out
AVDDG	Output	AVDD regulator output
SO1~SO1536	Output	Source Driver Output Signals
	- arpar	All outputs will be of unknown values under stand-by mode.
COM1_IN	S	Internal link together between input side and output side
COM1_OUT		
COM2_IN	S	Internal link together between input side and output side.
COM2_OUT TP	Т	
IP	I	Float these pins for normal operation
CHIEL DING	611	Those pins are internally connected to the AGND.
SHIELDING	SH	DO NOT connect to any WOA on the panel.
		Data Bus Shielding pad
DASHD	SH	Those pins are internally connected to the GND.
<u>-</u>		RECOMMAND to add shielding lines on the FPC to reduce EMI.

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Pin Name	Pin Type	Description
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.

wiring resistance

Pin Name	Wiring Resistance	Pin Name	Wiring resistance		
i iii Naiiie	value(Ω)	i iii Naiiie	value (Ω)		
AVDD	<5	RESO	<100		
AGND	5	CREST V	<100		
VDD	5	SHLR	<100		
GND	5	UPDN	<100		
V1~V14	<5 1 ()	BIST	<100		
DRVx	() (5)	MODE	<100		
FBX	<5	DCLKPOL	<100		
VCOMI/	5	DIMO	<100		
УСОМО	<5	IFSEL	<100		
D00~D07	<5	F_Ctrlx	<500		
D10~D17	<5	OEVx	<500		
D20~D27	<5	UDx	<500		
DCLK	<5	CKVx	<500		
NINC	<5	STV1x	<500		
VSD	<20	STV2x	<500		
HSD	<20	STBNx	<500		
DEN	<20	VGH	<10		
GRB	<100	VGL	<10		
STBYB	<100				
DITHER	<100				



5. 3 WIRE SERIAL PORT INTERFACE

5.1. 3-Wire Command Format

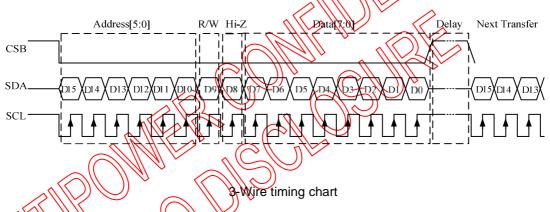
EK79001 use the 3-wire serial port as communication interface for all the function and parameter setting.

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 Command Format

O WII O O O (I III IQI	ia yawinat () ()
Bit	Description
D(5~D10	Register Address [5:0].
\ 0.9	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	Х		Data	a(Issue	e by ex	ternal	contro	ller)		

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)							



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.
STBYB	DOISI	GRB="1", Normal operation. (Defautt) Standby mode selection bit.
SIDID	R0[3]	STBYB="0", Timing control officer 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", STX2 output vertical start pulse and ND pin output logical "0" to Gate
		driver. (Default)
		UPDN ("1", STV1 output vertical start pulse and UD pin output logical "1" to Gate
0111.0	D 0151	driver.
SHLR	R0[5]	Right/Left sequence control of source driver.
	\sim	SHER="0", Shift left, Last data = \$1<\$2<\$3<<\$960=First data
		SH\R="1", Shift right First data = S1 <s2<s3<<s960=last data(default)<="" td=""></s2<s3<<s960=last>
	R0[6]	Reserved
PWM_EN	(R0(7)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	POWER enable
		PWR_EN - Hc enable PWM , Charge pump and VCOM buffer
		PWR EN L disable PWM , Charge pump and VCOM buffer (Default)

R1: System Control Register:

Designation	Address	Description
		Reserved
RES[Y:0]	R1[2:1]	RES[1:0] = "01", for 1024(RGB)*768 display resolution(dual or cascade)
		RES[1:0] = "00", for 1024(RGB)*600 display resolution(dual or cascade) (default)
		RES[1:0] = "10", for 800(RGB)*600 display resolution(dual or cascade)
		(601~936 channel disable)
		RES[1:0] = "11", for 800(RGB)*480 display resolution(dual or cascade) (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.
J	[.]	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)
OADO ENIA-OI	D4[7:0]	If DITHER="0",disable dithering function(H-FRC and FRC disable)
CABC_EN[1:0]	R1[7:6]	CABC H/W enable pin. Normally pull low.
		When CABC_EN="00", CABC OFF. (Default mode) When CABC_EN="01", User interface Image.
		When CABC_EN="10", Oser Interface image. When CABC_EN="10", Still Picture.
		When CABC_EN="11", Moving Image

fitipowerR2: System Control Register:

	·· oyotom common regional							
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					
		1 0					
		0 1 z					
		0 0 Z(default)					
FRAME	R3[2]	Frame inverse or not select					
		FRAME = "1", Uniform					
		FRAME = "0", Frame inverse(Default)					
		Reserved					

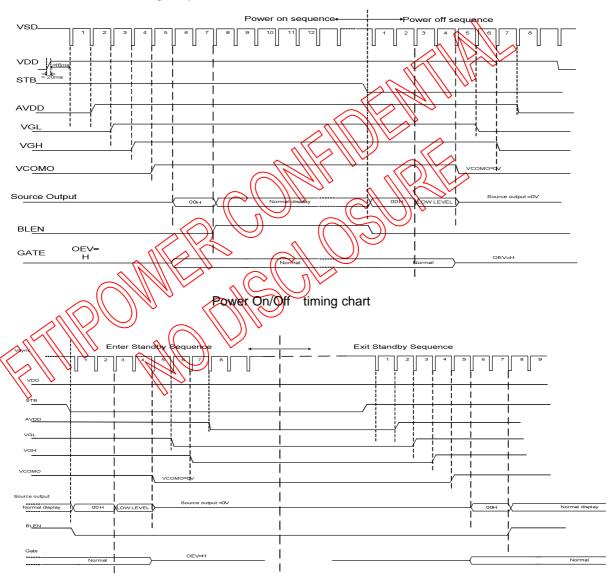


6. FUNCTION DESCRIPTION

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/Off Timing Sequence



Enter and Exit Standby Mode timing chart

Note: Low level=3Fh,when NBW=L(Normally white) Low level=00h,when NBW=H(Normally black)



6.3. Input Data VS Output Channels

6.3.1. DUAL="0"

SHLR="1", right shift

Output	SO1	SO2	SO3	-	SO1534	SO1535	SO1536
Order	First data			\rightarrow	Last data		
Odd Line	D07~D00	D17~D10	D27~D20		D07~D00	D17~D10	D27~D20
Even Line	D07~D00	D17~D10	D27~D20		D07~D00	D17-D10	D27~D20

SHLR="0",left shift

					1. \ 11 \ 11		
Output	SO1	SO2	SO3		SO1534	SO1535	SO1536
Order		Last data	١ _			First data	ì
Odd Line	D07~D00	D17~D10	D27~D20	K III	D07-000	D17~D10	D27~D20
Even Line	D07~D00	D17~D10	D27~D20	90 "	D07-D00	D17~D10	D27~D20

6.3.2. DUAL="1"

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/	D 07~D00	D2X+D20	D17~D10		D07~D00	D27~D20	D17~D10
Even LineX Gn+V	D17~D10	D07-D00	D27~D20		D17~D10	D07~D00	D27~D20

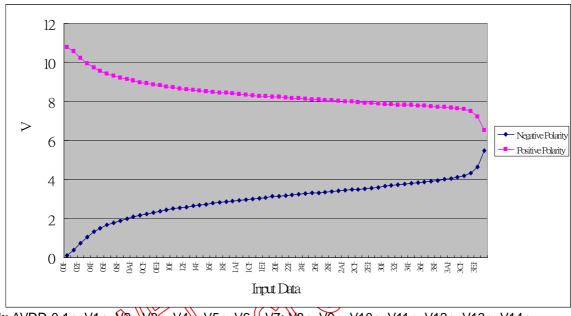
SHLR="0",left shift

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	

6.4. 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



6.5. Input Data and Output Voltage Reference Table

Input Data and Output Voltage Reference Table

@AVDD=11V

V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	Unit
10.78	10.569	8.708	8.213	7.866	7.243	6.51	5.49	4.63	3.653	3.146	2.493	0.373	0.11	V

Data	Positive		Data	Positive
00H	AVDD×0.980		20H	AVDD×0.747
01H	AVDD×0.961		21H	AVDD×0 745
02H	AVDD×0.930		22H	AVDDx0.743
03H	AVDD×0.905		23H	AVDD×0.741
04H	AVDD×0.885		24H	AVDD×0.739
05H	AVDD×0.870		25H)	AVDD×0.737
06H	AVDD×0.857		26H	AVDD×0.735
07H	AVDD×0.847		27H	AVDD×0.732
08H	AVDD×0.838		28H	AVDD×0.731
09H	AVDD×0.830		29H	AVDD×0.729
0AH	AVDD×0.823		(\$AH)	AVDD×0.727
0BH	AVD0x0.816		2BH	AVDD×0.725
0CH	AVDDX0.811		2CH	AVDD×0.723
0DH	AVQD×0.806		2DH	AVDD×0.721
ØEH)//	AVDD×0.801		2EH	AVDD×0.719
ØFA(AVDD×0.796		2FH	AVDD×0.717
10H	AVDD×0.792)	30H	AVDD×0.715
11H	AVD0×0.788		31H	AVDD×0.713
12H	AVDD×0.784		32H	AVDD×0.711
13H	AVDD×0.781		33H	AVDD×0.710
14H	AVDD×0.778		34H	AVDD×0.709
15H	AVDD×0.775		35H	AVDD×0.707
16H	AVDD×0.772		36H	AVDD×0.706
17H	AVDD×0.769		37H	AVDD×0.704
18H	AVDD×0.766		38H	AVDD×0.702
19H	AVDD×0.763		39H	AVDD×0.700
1AH	AVDD×0.761		ЗАН	AVDD×0.697
1BH	AVDD×0.758		3ВН	AVDD×0.694
1CH	AVDD×0.756		3СН	AVDD×0.690
1DH	AVDD×0.753		3DH	AVDD×0.681
1EH	AVDD×0.751		3EH	AVDD×0.658
1FH	AVDD×0.748		3FH	AVDD×0.592

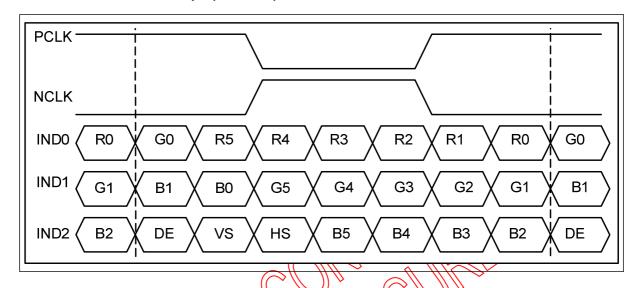
fitipower

Data	Negative		Data	Negative
00H	AVDD×0.010		20H	AVDD×0.286
01H	AVDD×0.034		21H	AVDD×0.289
02H	AVDD×0.068		22H	AVDD×0.292
03H	AVDD×0.096		23H	AVDD×0.294
04H	AVDD×0.119		24H	AVDD×0.297
05H	AVDD×0.136		25H	AVDD×0.300
06H	AVDD×0.151		26H	AVDD×0,302
07H	AVDD×0.162		27H	AVD0x0.303
08H	AVDD×0.172		28H	//AVDD×0/308
09H	AVDD×0.182		29H	AVDD×0.311
0AH	AVDD×0.189		2AH	AVDD×0.314
0BH	AVDD×0.197		₹ ВН Т	AVDD×0.316
0CH	AVDD×0.204	~ 1/	2CH	AVDD×0.318
0DH	AVDD×0.210		2DH	AVD0x0.321
0EH	AVDD×0.215		2EH \	AVDD×0.325
0FH	AVDD×0.221		(FH)	AVDD×0.328
10H	AVDD×0.227		30H	AVDD×0.332
11H	AVD(0x0,23)		31/H	AVDD×0.336
12H	AVDD*0.238		32H	AVDD×0.339
13H (AXXD×0.240		33H	AVDD×0.342
(4H)	AVDD×0.245		34H	AVDD×0.345
1514	AVDD×0248		35H	AVDD×0.348
16H	AVPD*0.253		36H	AVDD×0.351
17H	AVD0×0:256		37H	AVDD×0.355
18H	AVDD×0.260		38H	AVDD×0.359
19H	AVDD×0.263		39H	AVDD×0.364
1AH	AVDD×0.266		ЗАН	AVDD×0.369
1BH	AVDD×0.270		3BH	AVDD×0.375
1CH	AVDD×0.273		3CH	AVDD×0.382
1DH	AVDD×0.277		3DH	AVDD×0.394
1EH	AVDD×0.280		3EH	AVDD×0.421
1FH	AVDD×0.284		3FH	AVDD×0.499



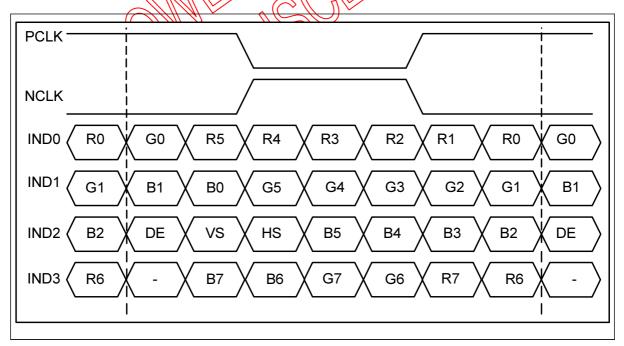
6.6. Data Input Format for LVDS

6.6.1. 6-bit LVDS input(HSD="H")



6-bit LVDS Input Timing chart

6.6.2. 8-bit LVD\$\input(HSD="L")

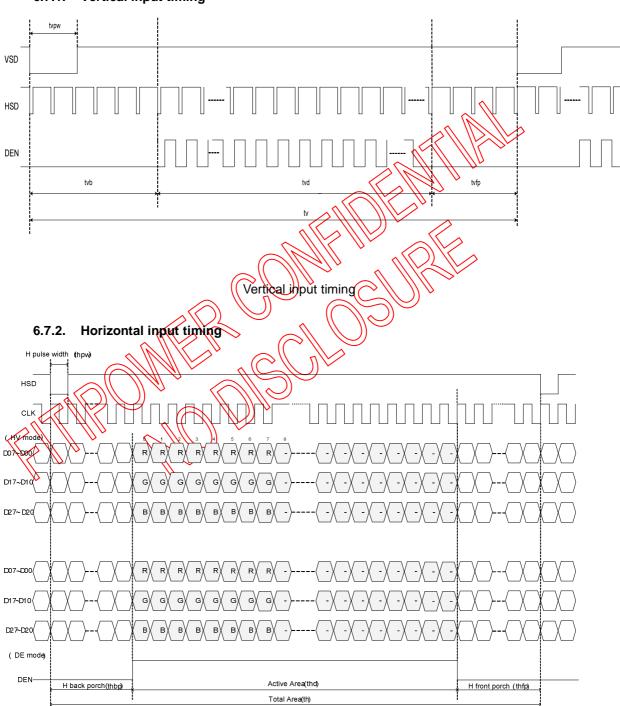


8-bit LVDS Input Timing chart



6.7. Data Input Format for TTL

6.7.1. Vertical input timing



Horizontal input timing



6.8. Parallel RGB Timing Characteristic

6.8.1. For 1024RGB x 768 panel

DE mode

DE mode							
Parameter	Symbol			Unit			
r araffieter	Symbol	Min.	Тур.	Max.	Oill		
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		₹68		Н		
VSYNC period time	tv	> \\	806	845	Н		
VSYNC blanking	tvb+tvfp	10	38	77	I		

HV mode(1)

HV mode

Horizontal input timing

		$\overline{}$			
Parameter	Symbol		Value		Unit
Horizontal display area	\thd \\		1024		DCLK
DCLK frequency @ Frame rate=60hz	rclk	Min.	Тур.	Max.	
DOLK Trequency & Figure Fate=00012) CIK	57	65	70.5	Mhz
1 Horizontal Line	th	1200	1344	1400	
Min.			1		
HSYNC pulse width Typ.	thpw		_		DCLK
Max.			140		DCLK
HSYNC back porch	thbp	160	160	160	
HSYNC front porch	thfp	16	160	216	

Vertical input timing						
Parameter	Cymbol			Unit		
	Symbol	Min.	Тур.	Max.	Offic	
Vertical display area	tvd	768			Н	
VSYNC period time	tv	792	806	840	Н	
VSYNC pulse width	tvpw	1	_	20	Н	
VSYNC back porch	tvb	23	23	23	Н	
VSYNC front porch	tvfp	1	15	49	Н	



DE mode

DE mode					
Parameter	Symbol		Value		Unit
r arameter	Syrribor	Min.	Тур.	Max.	Oill
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		<u>/600/</u>		Н
VSYNC period time	tv	610	635	800	Н
VSYNC blanking	tvb+tvfp	10	85	200	Н
	/	<i>TH 1111</i>	^		

HV mode(1)

HV mode

Horizontal input timing

	// 11 ^	-			
Parameter	Symbol		Value		Unit
Horizontal display area	thd		1024		DCLK
DCLK frequency@ Frame rate=60hz	fclk	Min.	Тур.	Max.	
DOEN requerity with an enales of the		44.9	51.2	63	Mhz
1 Florizontal Line	th	1200	1344	1400	
Min	7		1		
HSYNC pulse width Typ.	thpw		_		DCLK
Max.			140		DCLK
HSYNC back porch	thbp	160	160	160	
HSYNC front porch	thfp	16	160	216	

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



DE mode

DE mode							
Parameter	Symbol		Value		Unit		
raiametei	Symbol	Min.	Тур.	Max.	Oill		
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)		Н		
VSYNC period time	tv	610	(1) eeg	800	Н		
VSYNC blanking	tvb+tvfp	10	60	200	Н		

HV mode(1)

HV mode

Horizontal input timing

	11 -	\sim	11 11		
Parameter	Symbol		Value		Unit
Horizontal display area	thd		800		DCLK
DCLK frequency@ Frame rate=60hz	fclk	Min.	Тур.	Max.	
DCEN requerity what have have some	3 (ICIK)	34.5	39.6	50.4	Mhz
1 Florizontal Line	th	900	1000	1200	
Min	7		1		
HSYNC pulse width Typ.	thpw		_		DCLK
Max.			40		DOLK
HSYNC back porch	thbp	88	88	88	
HSYNC front porch	thfp	12	112	312	

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



DE mode

DE mode							
Parameter	Symbol		Value		Unit		
i didilietei	Symbol	Min.	Тур.	Max.	Offic		
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		Н		
VSYNC period time	tv	490	525	700	Н		
VSYNC blanking	tvb+tvfp	10	45	220	Н		

HV mode(1)

HV mode	
Horizontal	input timina

Horizontal input timing					
Parameter	Symbol		Value		Unit
Horizontal display area	thd		800		DCLK
DCLK frequency@ Frame rate=60hz	fclk	Min.	Тур.	Max.	
DOEK frequency whate hate 50012	3 (ICIK)	27.7	29.2	39.6	Mhz
1 Horizontal Line	th	900	928	1100	
Min	7		1		
HSYNC pulse width Typ.	thpw		_		DCLK
Max.			40		DCLK
HSYNC back porch	thbp	88	88	88	
HSYNC front porch	thfp	12	40	212	

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



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

TEMPERATURE		_	
	Min.	Max.	Unit
Operating temperature	20	+85	$\mathcal C$
Storage temperature	\\-55\\	+125	J

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 = 20 to 85°C, CND = ACND = GND_LVDS = 0V)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Digital supply voltage	////VDD	2,3	3.3	3.6	V
Analog supply voltage	AVDD		-	13.5	V
Digital input voltage	VIIV	0	-	VDD	V



7.3. DC Electrical Characteristics

DC Characteristics

 $(TA = -20 \text{ to } 85^{\circ}C, VDD = 2.3 \text{ to } 3.6V, AVDD = 8 \text{ to } 13.5V, GND = AGND = GND_LVDS = 0V)$

7.3.1. TTL mode

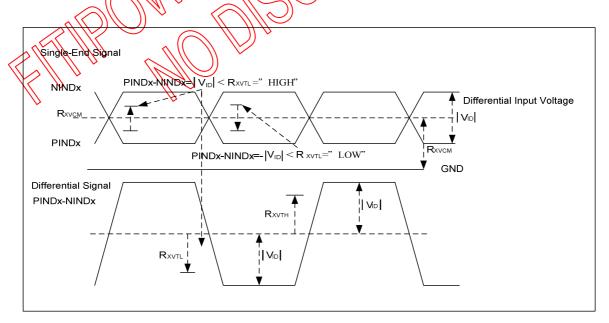
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Low level input voltage	Vil	For the digital circuit	0	7	0.3×VDD	V
High level input voltage	Vih	For the digital circuit	0.7×VDD	$\ A\ _{L^{2}}$	VDD	V
Input leakage current	li	For the digital circuit			±1	μΑ
High level output voltage	Voh	Ioh= -400 μA	XDP-04	1 110	-	V
Low level output voltage	Vol	lol= +400 μA		ı	GND+0.4	>
Pull low/high resistor	Ri	For the digital input pin @\\\VDD=3.3V	200K	250K	300K	ohm
Digital Operation current	ldd	Fclk=65 MHz, FLD=50KHz, VDD=3.3V		1 5	25	mA
Digital Stand-by current	lst1	Clock and all functions are stopped		10	50	μΑ
Analog Operating Current	Idda	(No)load, Felk=65MHz, FLB=50KHz @ AVDD=10V,V1=8V, VP4=0.4V	-	10	12	mA
Analog Stand-by current	lst2	No load Clock and all functions are Stopped	-	10	50	μΑ
Input level of V1 - WX	Vreft	Camma correction voltage input	0.4*AVDD	ı	AVDD-0.1	>
Input level of V8 ~ V14	Vref2	Gamma correction voltage input	0.1	ı	0.6*AVDD	>
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	1	±15	±20	mV
Output Voltage Offset between Chips	Voc	Vo = AVSS+0.5V ~ AVDD-0.5V	1	ı	±20	mV
Dynamic Range of Output	Vdr	SO1 ~ SO1536	0.1	-	AVDD-0.1	٧
Sinking Current of Outputs	lOLy	SO1 ~ SO1536; Vo=0.1V v.s 1.0V , AVDD=13.5V	80	-	-	uA
Driving Current of Outputs	ЮНу	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



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

LVDS DC characteristic

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Differential	Rx∨TH			+0.1V	V	RxVCM=1.2V
input high						
threshold						
voltage						
Differential	RxVTL	-0.1			V	
input low						
threshold					^ <	
voltage					Mar	
Input voltage	Rx∨in	0		2.4		
range(single-end)					1/1/1/1	•
Differential	RxVCM	$ V_{ID} /2$		2.4 - V _{ID} /2	$ \mathcal{C} \mathcal{M} $	
input common						
mode voltage						
Differential	V ID	0.2		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ V	
input voltage			1/1			
Differential	Rx∨TH	-10	- 6	410		
input leakage						
current		α			1111/20	E !! 0514!
LVDS Digital	Iddlvsd	- ((40(TBD)	50)) ∖\ mA	Fclk=65Mhz,
Operating			\bigcirc			VDD=3.3V
Current			10/700	11 -1100	•	01 1 0 11
LVDS Digital	Istlvds		10(TBB)	50	uA	Clock & all
Standby	M					functions are
Current		# ~ (<u> </u>		stop



LVDS DC Characteristic



Power

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Base drive current for PWM	IDRV	_	_	60	mA	DRVA = 0.7V
DRV output voltage for PWM	VDRV	0	-	VDD	V	
Feedback voltage for PWM	VFB	1.1	1.2	1.3	V	
Duty cycle maximum	Dmax	_	_	85		^
VCOM buffer input voltage	VCOMI	1	I	AVDD		
VCOM buffer output voltage	VCOMO	VCOMI-0.2	VCOMI	YEOMHOS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
VCOM buffer output current	IVCOM	-	-	10	mA	VCOMO= 5V vs 4.9V



7.4. AC Electrical Characteristics

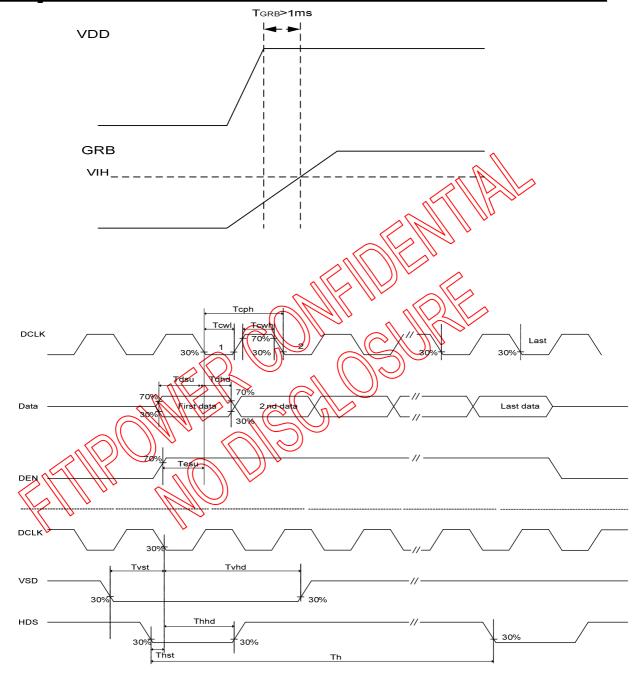
 $(TA = -20 \text{ to } 85^{\circ}C, VDD = 2.3 \text{ to } 3.6V, AVDD = 8 \text{ to } 13.5V, GND = AGND = 0V)$

TTL mode

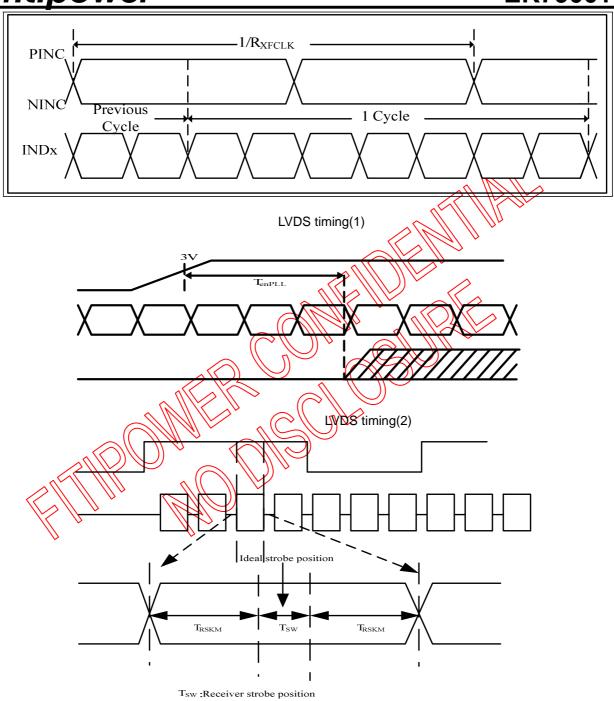
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
VDD Power On Slew rate	TPOR	From 0V to 90% VDD	-	-	20	ms
RSTB pulse width	TRST	DCLK = 65MHz	50	-	-	us
DCLK cycle time	Tcph	-	14	-	-	ns
DCLK pulse duty	Tcwh	-	40	\ 50	60	%
VSD setup time	Tvst	-	2 5		-	ns
VSD hold time	Tvhd	-) 5	<u>-</u>	-	ns
HSD setup time	Thst	-	15	-	-	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		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	-	ns
DE hold time	Tehd	William " With	5	-	-	ns
Output stable time	Tsst .	10% to 90% target voltage. CL=90pF R=10K ohm(Cascade)	_		6	116
Output stable time	1551	Dual gate	-	-	3	us

LVDS mode

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Clock Frequency	RXFCLK		20	-	71	MHz
Input data skew margin	TRSKM	VID =400mV RxVCM=1.2V RxFCLK=71MHz	500			ps
Clock High Time	TLVCH			4/(7* RxFCLK)		ns
Glook riight riine	TEVOIT			47 (7 TOLK)		ns
Clock Low Time	TLVCL			3/(7* RxFCLK)		ns
PLL wake-up-time	TenPLL				150	us



Parallel Input Clock and Data timing



T_{RSKM}:Receiver strobe margin

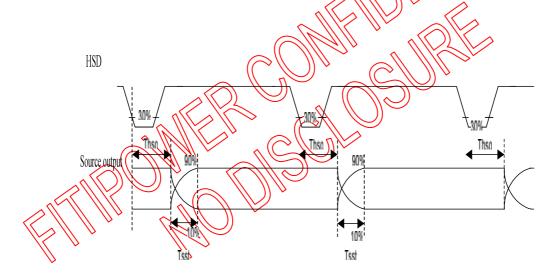
LVDS timing(3)

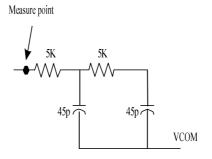


7.5. Output Timing Table

Output Timing Table

Parameter	Symbol	Min.	Тур.	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	-	DQ/K	
LD pulse width	Twld	•	10	- //	DCTK	
CKV pulse width	Twckv	ı	66	$\mathbb{Z}^{\mathbb{Z}}$	DOTK	>
OEV pulse width	Twoev	-	74	(-)//	DCLK	





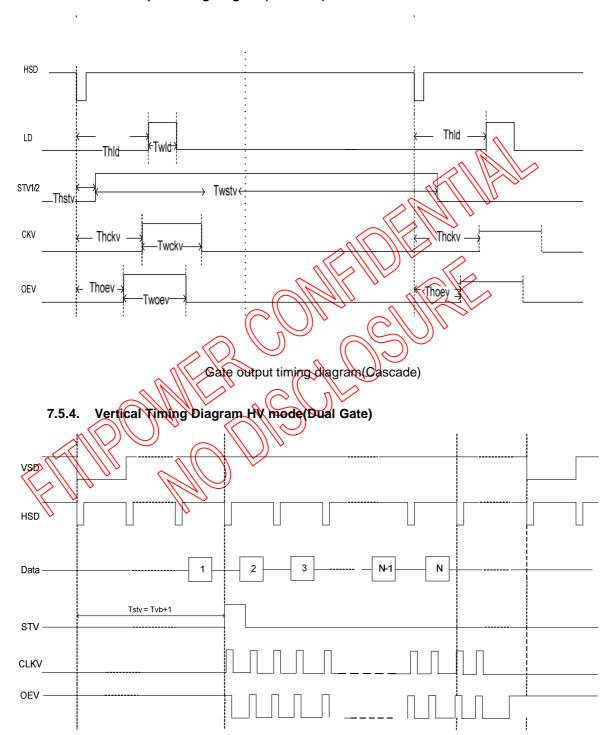
Source Output Timing(Cascade)



7.5.1. Vertical Timing Diagram HV mode(Cascade) VSD HSD Data Tstv= Tvb+1 STV CKV OEV Vertical Timing Diagram HV mode(Cascade) Vertical Timing Diagram DE mode(Cascade) Line Line DEN Data N N-1 Internal ٧S DE falling to Internal VS = 2048 DE falling to Internal HS = 2 clk Internal HS Tstv: User define STV CKV OEV

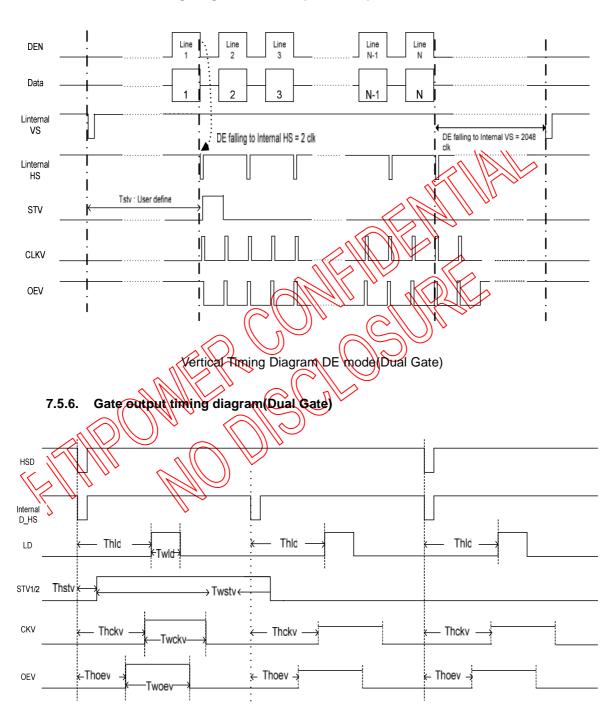
Vertical Timing Diagram DE mode(Cascade)





Vertical Timing Diagram HV mode(Dual Gate)





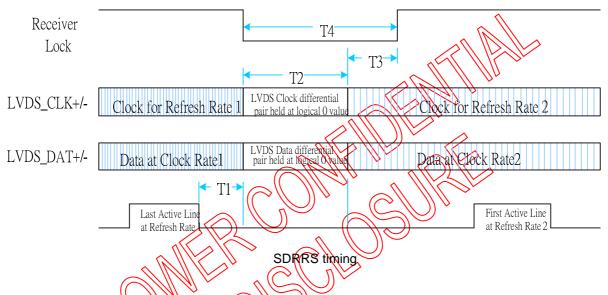
Gate output timing diagram(Dual Gate)



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.

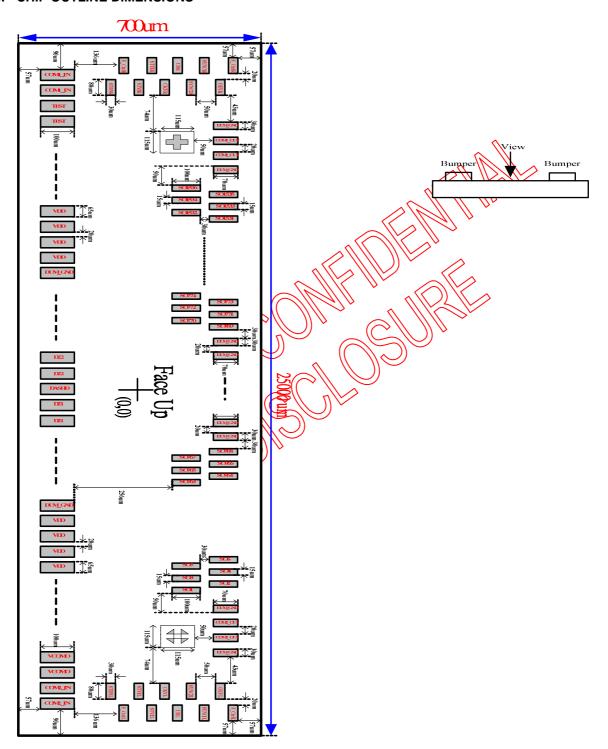


T1-Min delay from start of vertical blank to start of timing change:2 lines(HSYNC periods)

T2-Max delay for clock to transition to new frequency:100us

T3-Max receiver lock delay from stable clock: Display specific

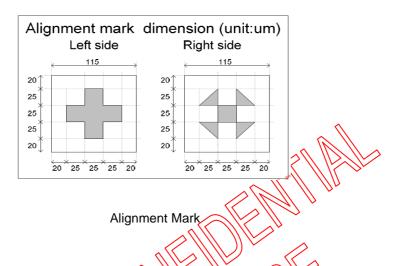
T4-Max period during which panel maintains display(T2+T3): Display specific



Chip Outline Dimensions



9.1. Alignment Mark



9.2. Pad Coordinate

Pad Text Name CX								$\overline{}$	// •		\sim	\\		
2 COM1 IN -1229.5 -243	Pad	Text Name	CX	CY		42	NBW	-8892.5	-243		84	SHIELDING	-5322.5	-243
3	1	COM1_IN	-12377.5	-243		43	PINCTE	-880\\.5\	-243	7	85	AGND	-5237.5	-243
TP	2	COM1_IN	-12292.5	-243		44	PWCTL	8722.5	-243		1/86	AGND	-5152.5	-243
SHIELDING	3	TP	-12207.5	-243		45	\$HIELDING	-8637.5	(-243)	//	8//	AGND	-5067.5	-243
F	4	TP	-12122.5	-243		46	// DIMA	-8552.5	243	//	88	AGND	-4982.5	-243
7 SHIELDING -11867.5 -243 8 AGND -11782.5 -243 9 AGND -11697.5 -243 10 AGND -11697.5 -243 11 AGND -11697.5 -243 12 SHIELDING -1197.5 -243 13 AVDD -11937.5 -243 14 AyDD -11937.5 -243 15 AYDD -11937.5 -243 16 AYDD -11937.5 -243 17 SHIELDING -1017.5 -243 18 GND -1017.5 -243 19 GND -10677.5 -243 19 GND -10422.5 -243 22 SHIELDING -10592.5 -243 23 VDD -10422.5 -243 25 VDD -10337.5 -243 26 VDD -10337.5 -243 27 SHIELDING -10422.5 -243 28 TP -10082.5 -243 29 TP -9997.5 -243 30 TP -9997.5 -243 31 TP -9972.5 -243 31 TP -9972.5 -243 32 TP -9972.5 -243 33 TP -9987.5 -243 34 TP -9572.5 -243 35 TP -9407.5 -243 36 GND -10687.5 -243 37 TP -9987.5 -243 38 SHIELDING -682.5 -243 39 DIMI -9147.5 -243 30 TP -9974.5 -243 31 TP -9877.5 -243 31 TP -9877.5 -243 32 TP -9967.5 -243 33 TP -9967.5 -243 34 TP -9974.5 -243 35 TP -9407.5 -243 36 GND -5662.5 -243 37 TP -9974.5 -243 38 SHIELDING -682.5 -243 39 DIMI -9147.5 -243 39 DIMI -9147.5 -243 30 DI	5		-12037.5	-243	٠	47	QIMØ	-8467.5	-243	Ν.	89	SHIELDING	-4897.5	-243
8 AGND -11782.5 -243 9 AGND -11697.5 243 10 AGND -11697.5 243 11 AGND -11697.5 243 11 AGND -11697.5 243 11 AGND -11697.5 243 11 AGND -11697.5 243 12 SHIELDING -1932.5 -243 13 AVDD -1932.5 -243 14 AVDD -1932.5 -243 15 AVDD -11782.5 -243 16 AVDD -11782.5 -243 17 SHIELDING -1087.5 243 18 GND -1087.5 243 19 GND -1067.5 -243 20 GND -1067.5 -243 21 GND -1067.5 -243 22 SHIELDING -1087.5 -243 23 VDD -10807.5 -243 24 VDD -10807.5 -243 25 SHIELDING -1067.5 -243 26 VDD -10303.5 -243 27 SHIELDING -1067.5 -243 28 TP -10082.5 -243 26 VDD -10325.5 -243 27 SHIELDING -1067.5 -243 28 TP -9987.5 -243 30 TP -9987.5 -243 31 TP -9987.5 -243 32 TP -9974.5 -243 33 TP -9867.5 -243 34 TP -9987.5 -243 35 TP -9987.5 -243 36 GND -6087.5 -243 37 TP -9987.5 -243 38 SHIELDING -1067.5 -243 39 DIMI -9147.5 -243 39 DIMI -9147.5 -243 30 DIMI -9147.5 -2	6	TP	-11952.5	-243	〜 `	48/	SHIELDING	-8382.5	1243	リ	90	V1	-4812.5	-243
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12 SHIELDING 142.5 243 54 NP -7872.5 -243 96 V4 -4302.5 -243 13 AVDD 1335.5 -243 56 NAME -7707.5 -243 97 V4 -4217.5 -243 15 AVDD 11187.5 -243 56 NAME -7707.5 -243 98 V5 -4132.5 -243 15 AVDD 11017.5 -243 58 SEL[0] -7617.5 -243 100 V6 -3867.5 -243 18 GND -10932.5 -243 60 SEL[1] -7362.5 -243 100 V6 -3867.5 -243 18 GND -10847.5 -243 61 CSB -7772.5 -243 101 V6 -3877.5 -243 19 GND -10677.5 -243 62 CSB -7717.5 -243 102 V7 -3707.5 -243 22 SHIELDING -10507.5 -243 63 SHIELDING -7107.5 -243 104 GAMH -3622.5 -243 24 VDD -10422.5 -243 66 SIDA -6937.5 -243 105 GAMH -3537.5 -243 25 VDD -10337.5 -243 66 SIELDING -6852.5 -243 106 SHIELDING -3367.5 -243 25 VDD -10325.5 -243 66 SIELDING -6852.5 -243 106 SHIELDING -3367.5 -243 25 VDD -10325.5 -243 66 SIELDING -6852.5 -243 108 VSD -3282.5 -243 25 VDD -10325.5 -243 67 SCL -6767.5 -243 108 VSD -3282.5 -243 28 TP -10082.5 -243 69 SHIELDING -6852.5 -243 111 DASHD -3107.5 -243 243 25 VDD -10325.5 -243 67 SCL -6767.5 -243 111 DASHD -3107.5 -243 243 244 TP -9997.5 -243 70 VDD -6342.5 -243 113 GND_LVDS -2857.5 -243 31 TP -9987.5 -243 74 SHIELDING -6172.5 -243 116 GND_LVDS -2867.5 -243 31 TP -9987.5 -243 75 GND -6002.5 -243 116 GND_LVDS -2261.5 -243 31 TP -9942.5 -243 76 GND -5977.5 -243 118 D26 -2432.5 -243 31 TP -9942.5 -243 77 GND -5977.5 -243 119 DASHD -3247.5 -243 31 TP -9942.5 -243 78 GND -5977.5 -243 119 DASHD -3247.5 -243 31 TP -9942.5 -243 79 SHIELDING -6172.5 -243 119 DASHD -3257.5 -243 31 TP -9942.5 -243 78 GND -5977.5 -243 119 DASHD -2	10	AGND	-11612.5	4243	/ /	52	, HFRC \\	-8042.5	-243		94		-4472.5	-243
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16			11272.5	-243				-7702.5	-243		98		-4132.5	-243
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128	126	D21	-1752.5	-243	1	192	GND	3857.5	-243		258	AVDD	9467.5	-243
1929 DCLK	127	D20	-1667.5	-243		193	GND	3942.5	-243		259	AVDD	9552.5	-243
130 NINC	128	DASHD	-1582.5	-243		194	SHIELDING	4027.5	-243		260	AVDD	9637.5	-243
131 DASHD	129	DCLK	-1497.5	-243		195	VDD	4112.5	-243		261	AVDD	9722.5	-243
133 VDD_LVDS -1176.5 -243 198 VDD 4367.5 -243 243 266 AGND 1097.5 -243 243 243 245	130	NINC	-1412.5	-243		196	VDD	4197.5	-243		262	SHIELDING	9807.5	-243
1934 VOD LVDS -1167.5 -243	131	DASHD	-1327.5	-243		197	VDD	4282.5	-243		263	AGND	9892.5	-243
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139	134	VDD_LVDS	-1072.5	-243		200	DUAL	4537.5	-243		266	AGND	10147.5	-243
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161 DASHD 1224/5 243 227 GR6 683 5 -243 229 STBNL 12303.0 -82 236 SHRLDING 1383.5 -243 228 SHR 6917.5 -243 2294 F_Ctril. 12403.0 -22 164 GAML 147.5 243 229 SHLN 7087.5 -243 229 STVLL 12303.0 -22 229 SHLN 7087.5 -243 229 STVLL 12303.0 78 240 1817.5 -243 229 STVLL 12403.0 18 -22 229 STVLL 12303.0 78 -22 229 STVLL 12403.0 18 -22 22 22 22 22 22 22														
162 SHIELDING 490, 5 243 229 SHLR 6917.5 -243 295 STV2L 12303.0 -2 243 244 245 243 245 243 245 243 245 243 244 245 243 244 246 243 244 246 243 244 245 243 244 246 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 244 245 243 245 243 244 245 243 245 243 244 245 243 245 243 245 243 245 243 245 243 244 245 243 245 245 243 245 245 243 245 2		DASHD			//				_					
163 GAML 1392 243 229 SHLR 7002.5 -243 296 STV2L 12303.0 -2 243 244 244 245					Λ	~		6917.5						
164 GAM					~			~ //			295			
166	164	GAM	147.5	-24 3		230	(VPDN)	7087.5	-243		296	STV1L	12403.0	38
167	165	V8\	1662.5	-243	١.	231	URDN	7172.5	-243		297	CKVL	12303.0	78
168 V9 1817.5 -243 TP 7427.5 -243 169 V10 1902.5 -243 236 TP 7512.5 -243 170 V10 1987.5 -243 236 TP 75512.5 -243 171 V11 2072.5 -243 236 TP 7697.5 -243 172 V11 2157.5 -243 238 TP 7767.5 -243 173 V12 2242.5 -243 238 TP 7767.5 -243 175 V13 2412.5 -243 240 TP 7937.5 -243 176 V13 2497.5 -243 242 TP 8107.5 -243 177 V14 2582.5 -243 244 TP 8107.5 -243 178 V14 2667.5 -243 244 TP 8107.5 -243 180 AGND 2837.5 -243 244	166	/\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1647.5	-243			SHIELDING	7257.5	-243		298	UDL	12403.0	118
169	167	// /Ø //	1732.5	-243	\	1233)) TP	7342.5	-243		299	SYNC2L	12303.0	158
170 V10 1987.5 -243 171 V11 2072.5 -243 172 V11 2157.5 -243 173 V12 2242.5 -243 175 V13 2412.5 -243 176 V13 2497.5 -243 177 V14 2582.5 -243 177 V14 2582.5 -243 177 V14 2582.5 -243 178 V14 2667.5 -243 179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 180 AGND 2837.5 -243 180 AGND 2875.5 -243 180 AGND 2937.5 -243 180 AGND 2875.5 -243 180 AGND 2875.5 -243 181 AGND 3007.5 -243 182 AGND 3007.5 -243 <td>168</td> <td>\\/9\\</td> <td>1817.5</td> <td>-243</td> <td></td> <td>V34</td> <td></td> <td>7427.5</td> <td>-243</td> <td></td> <td>300</td> <td>SYNC1L</td> <td>12403.0</td> <td>198</td>	168	\\ / 9\\	1817.5	-243		V 34		7427.5	-243		300	SYNC1L	12403.0	198
171 V11 2072.5 -243 172 V11 2157.5 -243 173 V12 2242.5 -243 174 V12 2327.5 -243 175 V13 2412.5 -243 176 V13 2412.5 -243 176 V13 2497.5 -243 177 V14 2582.5 -243 178 V14 2667.5 -243 179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 244 TP 7937.5 -243 306 SHIELDING 1205.0 258 307 SO1 12055.0 258 307 SO1 1205.0 258 307 SO1 12012.5 113 3179 SHIELDING 2752.5 -243 244 TP 8192.5 -243 3180 AGND 2837.5 -243 244	169	\(\V10 \\	1902.5	-243	//	235	TP	7512.5	-243		301	OEVL	12303.0	238
172 V11 2157.5 -243 173 V12 2242.5 -243 174 V12 2327.5 -243 175 V13 2412.5 -243 176 V13 2412.5 -243 177 V14 2562.5 -243 177 V14 2562.5 -243 178 V14 2667.5 -243 179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 181 AGND 2937.5 -243 181 AGND 2937.5 -243 244 TP 8192.5 -243 308 SO2 11997.5 243 TP 8192.5 -243 244 TP 8277.5 -243 310 SO4 11967.5 243 311 SO5 11952.5 113 312 SO6 11937.5 243 313 </td <td></td> <td></td> <td></td> <td></td> <td>\</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					\									
173 V12 2242.5 -243 174 V12 2327.5 -243 175 V13 2412.5 -243 176 V13 2497.5 -243 177 V14 2582.5 -243 177 V14 2582.5 -243 178 V14 2667.5 -243 179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 181 AGND 2922.5 -243 181 AGND 3007.5 -243 183 AGND 3007.5 -243 184 SHIELDING 3177.5 -243 185 AVDD 3307.5 -243 186 AVDD 3307.5 -243 249 VDD 8617.5 -243 186 AVDD 3347.5 -243 187 AVDD 3347.5 -243 250 VDD 8787.5 -243														
174 V12 2327.5 -243 175 V13 2412.5 -243 176 V13 2497.5 -243 177 V14 2582.5 -243 177 V14 2582.5 -243 178 V14 2667.5 -243 179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 181 AGND 2922.5 -243 182 AGND 3007.5 -243 183 AGND 3007.5 -243 184 SHIELDING 317.5 -243 184 SHIELDING 3177.5 -243 185 AVDD 3347.5 -243 186 AVDD 3347.5 -243 187 AVDD 3347.5 -243 187 AVDD 3432.5 -243 188 AVDD 3432.5 -243 250 VDD 8787.5 -243<														
175 V13 2412.5 -243 176 V13 2497.5 -243 177 V14 2582.5 -243 178 V14 2562.5 -243 179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 181 AGND 2837.5 -243 181 AGND 2922.5 -243 182 AGND 3007 SO1 11907.5 243 182 AGND 2837.5 -243 244 TP 8022.5 -243 182 AGND 3007.5 -243 244 TP 8022.5 -243 182 AGND 3007.5 -243 246 TP 8447.5 -243 311 SO5 11952.5 113 184 SHIELDING 3177.5 -243 248 VDD 8617.5 -243 314 SO8 11907.5 243 185 AVDD 33														
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177 V14 2582.5 -243 243 TP 8192.5 -243 309 SO3 11982.5 113 178 V14 2667.5 -243 244 TP 8277.5 -243 310 SO4 11967.5 243 179 SHIELDING 2752.5 -243 245 TP 8362.5 -243 311 SO5 11952.5 113 180 AGND 2837.5 -243 246 TP 8447.5 -243 312 SO6 11937.5 243 182 AGND 3007.5 -243 248 VDD 8617.5 -243 314 SO8 11922.5 113 183 AGND 3092.5 -243 248 VDD 8617.5 -243 314 SO8 11922.5 113 184 SHIELDING 3177.5 -243 249 VDD 8787.5 -243 316 SO10 11877.5 243 186 AVDD														
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179 SHIELDING 2752.5 -243 180 AGND 2837.5 -243 181 AGND 2922.5 -243 181 AGND 2922.5 -243 182 AGND 3007.5 -243 183 AGND 3092.5 -243 184 SHIELDING 8532.5 -243 185 AVDD 3177.5 -243 186 AVDD 3347.5 -243 186 AVDD 3347.5 -243 187 AVDD 3432.5 -243 188 AVDD 3517.5 -243 189 SHIELDING 3602.5 -243 189 SHIELDING 3602.5 -243 189 GND 3687.5 -243 256 GND 9212.5 -243 311 SO5 11952.5 312 313 SO6 319 3190.5 11922.5 311 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
180 AGND 2837.5 -243 181 AGND 2922.5 -243 182 AGND 3007.5 -243 183 AGND 3092.5 -243 184 SHIELDING 3177.5 -243 185 AVDD 3262.5 -243 186 AVDD 3347.5 -243 187 AVDD 3432.5 -243 188 AVDD 3517.5 -243 189 SHIELDING 3602.5 -243 189 SHIELDING 3602.5 -243 189 SHIELDING 3602.5 -243 189 SHIELDING 3602.5 -243 256 GND 9212.5 -243 312 S06 11937.5 243 313 S07 11922.5 113 318 S01 11892.5 113 319 S010 11877.5 243 318 S011 11847.5														
181 AGND 2922.5 -243 182 AGND 3007.5 -243 183 AGND 3092.5 -243 184 SHIELDING 3177.5 -243 185 AVDD 3262.5 -243 186 AVDD 3347.5 -243 187 AVDD 3432.5 -243 188 AVDD 3517.5 -243 189 SHIELDING 3602.5 -243 189 SHIELDING 3602.5 -243 189 GND 3687.5 -243 256 GND 9212.5 -243 313 SO7 11922.5 113 314 SO8 11907.5 243 250 VDD 8787.5 -243 317 SO10 11877.5 243 318 SO11 11862.5 113 318 SO12 11847.5 243 318 SO12 11847.5 2														
182 AGND 3007.5 -243 183 AGND 3092.5 -243 184 SHIELDING 3177.5 -243 185 AVDD 3262.5 -243 186 AVDD 3347.5 -243 187 AVDD 3432.5 -243 188 AVDD 3517.5 -243 189 SHIELDING 3602.5 -243 189 SHIELDING 3602.5 -243 190 GND 3687.5 -243 256 GND 9297.5 -243 328 SO16 11907.5 243 316 SO10 11877.5 243 317 SO11 11862.5 113 318 SO12 11847.5 243 253 GND 9042.5 -243 319 SO13 11832.5 319 SO14 11817.5 243 255 GND 9212.5 -243														
183 AGND 3092.5 -243 249 VDD 8702.5 -243 315 SO9 11892.5 113 184 SHIELDING 3177.5 -243 250 VDD 8787.5 -243 316 SO10 11877.5 243 185 AVDD 3347.5 -243 251 VDD 8872.5 -243 317 SO11 11862.5 113 187 AVDD 3432.5 -243 252 SHIELDING 8957.5 -243 318 SO12 11847.5 243 188 AVDD 3517.5 -243 254 GND 9042.5 -243 319 SO13 11832.5 113 189 SHIELDING 3602.5 -243 254 GND 9127.5 -243 320 SO14 11817.5 243 190 GND 3687.5 -243 256 GND 9212.5 -243 321 SO15 11802.5 113 190														
184 SHIELDING 3177.5 -243 250 VDD 8787.5 -243 316 SO10 11877.5 243 185 AVDD 3262.5 -243 251 VDD 8872.5 -243 317 SO11 11862.5 113 186 AVDD 3347.5 -243 252 SHIELDING 8957.5 -243 318 SO12 11847.5 243 188 AVDD 3517.5 -243 253 GND 9042.5 -243 319 SO13 11832.5 113 189 SHIELDING 3602.5 -243 255 GND 9212.5 -243 320 SO14 11817.5 243 190 GND 3687.5 -243 256 GND 9212.5 -243 321 SO15 11802.5 113 190 GND 3687.5 -243 256 GND 9297.5 -243 322 SO16 11787.5 243														
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186 AVDD 3347.5 -243 252 SHIELDING 8957.5 -243 318 SO12 11847.5 243 187 AVDD 3432.5 -243 253 GND 9042.5 -243 319 SO13 11832.5 113 188 AVDD 3517.5 -243 254 GND 9127.5 -243 320 SO14 11817.5 243 189 SHIELDING 3602.5 -243 255 GND 9212.5 -243 321 SO15 11802.5 113 190 GND 3687.5 -243 256 GND 9297.5 -243 322 SO16 11787.5 243														
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324	SO18	11757.5	243		390	SO84	10767.5	243		456	SO150	9777.5	243
325	SO19	11742.5	113		391	SO85	10752.5	113		457	SO151	9762.5	113
326	SO20	11727.5	243		392	SO86	10737.5	243		458	SO152	9747.5	243
327	SO21	11712.5	113		393	SO87	10722.5	113		459	SO153	9732.5	113
328	SO22	11697.5	243		394	SO88	10707.5	243		460	SO154	9717.5	243
329	SO23	11682.5	113		395	SO89	10692.5	113		461	SO155	9702.5	113
										462			
330	SO24	11667.5	243		396	SO90	10677.5	243			SO156	9687.5	243
331	SO25	11652.5	113		397	SO91	10662.5	113		463	SO157	9672.5	113
332	SO26	11637.5	243		398	SO92	10647.5	243		464	SO158	9657.5	243
333	SO27	11622.5	113		399	SO93	10632.5	113		465	SO159	9642.5	113
334	SO28	11607.5	243		400	SO94	10617.5	243		466	SO160	9627.5	243
335	SO29	11592.5	113		401	SO95	10602.5	113		467	SO161	9612.5	113
336	SO30	11577.5	243		402	SO96	10587.5	243		468	SO162	9597.5	243
337	SO31	11562.5	113		403	SO97	10577.5	113		469	SO163	9582.5	113
			243								SO164	9567.5	243
338	SO32	11547.5			404	SO98	10557.5	243		470			
339	SO33	11532.5	113		405	SO99	10542.5	113		471	SØ165	9552.6	113
340	SO34	11517.5	243		406	SO100	10527.5	243		472	\$0166\	9537.5	243
341	SO35	11502.5	113		407	SO101	10512.5	113		473	SQ167\\	9522.5	113
342	SO36	11487.5	243		408	SO102	10497.5	243		474	1/20168	9507.5	243
343	SO37	11472.5	113		409	SO103	10482.5	113	۱ ـ	475	SO169	9492.5	113
344	SO38	11457.5	243		410	SO104	10467.5	243		476	\$0170	9477.5	243
345	SO39	11442.5	113		411	SO105	10452.5	113	1	477	\$0171	9462.5	113
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346	SO40	11427.5	243		412	SO106	10437.5	243	11	478	SO172	9447.5	243
347	SO41	11412.5	113		413	SO107	10422.5	113	//	479	SO178	9432.5	113
348	SO42	11397.5	243		414	SO108	10497.5	24 3	\	480	SQ\74/	9417.5	243
349	SO43	11382.5	113		415	SO109	10302.5	11/3		481	\\\SO}\\	9402.5	113
350	SO44	11367.5	243		416	SO110	1037X.5	243		482	11 30178	9387.5	243
351	SO45	11352.5	113		417	SQ1210	10362.5	113	_	483	\\S0177	9372.5	113
352	SO46	11337.5	243		418	SO 12	10347.5	243	6	484	90178	9357.5	243
353	SO47	11322.5	113		419	SO 1/3	10332.5	1/13	<i>\\</i>	485	80179	9342.5	113
									11,				
354	SO48	11307.5	243		A20	SO114	10317.5	243	//	486	SO180	9327.5	243
355	SO49	11292.5	113	,<<	421	\$ Q115	10302,5	1/1/3)	487	SO181	9312.5	113
356	SO50	11277.5	243	$^{\prime\prime}$	422	\\ SO416	1,0287,5	243		488	SO182	9297.5	243
357	SO51	11262.5	113	//	423	\\SO117	10272.5	113		489	SO183	9282.5	113
358	SO52	11247.5	243	$^{\prime\prime\prime}$	424	SO118 (√ 10257.5 √	243		490	SO184	9267.5	243
359	SO53	11232,5	11811	//	425	SO1 ()	10242.5	113		491	SO185	9252.5	113
360	SO54	11217.5	243	Λ	426	50120	10227.5	243		492	SO186	9237.5	243
361	SO55	(11202.6)	1)1B	S	427	(SO12)	10212.5	113		493	SO187	9222.5	113
362	SO56	11202.0	243		428	\$0122	10212.5	243		494	SO188	9207.5	243
	/		_		\sim								
363	SQ57	11172.5	113	~	429	SQ128	10182.5	113		495	SO189	9192.5	113
364	\$\058 \\	∀√ 1 67 .5	243		430	\\ SO124	10167.5	243		496	SO190	9177.5	243
365	SO59 \\	11142.5	113		1431) SO125	10152.5	113		497	SO191	9162.5	113
366	_\$06\\\	11127.5	243		432	SO126	10137.5	243		498	SO192	9147.5	243
367	\\SO61\\	11112.5	113	//	433	SO127	10122.5	113		499	SO193	9132.5	113
368	\$062	11097.5	243		434	SO128	10107.5	243		500	SO194	9117.5	243
369	SO63	11082.5	113	1	435	SO129	10092.5	113		501	SO195	9102.5	113
370	SO64	11067.5	243		436	SO130	10077.5	243		502	SO196	9087.5	243
371	SO65	11052.5	113		437	SO131	10077.5	113		503	SO190	9072.5	113
372	SO66	11037.5	243		438	SO132	10047.5	243		504	SO198	9057.5	243
373	SO67	11022.5	113		439	SO133	10032.5	113		505	SO199	9042.5	113
374	SO68	11007.5	243		440	SO134	10017.5	243		506	SO200	9027.5	243
375	SO69	10992.5	113		441	SO135	10002.5	113		507	SO201	9012.5	113
376	SO70	10977.5	243		442	SO136	9987.5	243		508	SO202	8997.5	243
377	SO71	10962.5	113		443	SO137	9972.5	113		509	SO203	8982.5	113
378	SO72	10947.5	243		444	SO138	9957.5	243		510	SO204	8967.5	243
379	SO73	10932.5	113		445	SO139	9942.5	113		511	SO205	8952.5	113
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380	SO74	10917.5	243		446	SO140	9927.5	243		512	SO206	8937.5	243
381	SO75	10902.5	113		447	SO141	9912.5	113		513	SO207	8922.5	113
382	SO76	10887.5	243		448	SO142	9897.5	243		514	SO208	8907.5	243
383	SO77	10872.5	113		449	SO143	9882.5	113		515	SO209	8892.5	113
384	SO78	10857.5	243		450	SO144	9867.5	243		516	SO210	8877.5	243
385	SO79	10842.5	113		451	SO145	9852.5	113		517	SO211	8862.5	113
386	SO80	10827.5	243		452	SO146	9837.5	243		518	SO212	8847.5	243
		10827.5				SO146 SO147							_
387	SO81		113		453		9822.5	113		519	SO213	8832.5	113
388	SO82	10797.5	243		454	SO148	9807.5	243		520	SO214	8817.5	243
389	SO83	10782.5	113		455	SO149	9792.5	113		521	SO215	8802.5	113

522	SO216	8787.5	243		588	SO282	7797.5	243		654	SO348	6807.5	243
523	SO217	8772.5	113		589	SO283	7782.5	113		655	SO349	6792.5	113
524	SO218	8757.5	243		590	SO284	7767.5	243		656	SO350	6777.5	243
525	SO219	8742.5	113		591	SO285	7752.5	113		657	SO351	6762.5	113
526	SO220	8727.5	243		592	SO286	7737.5	243		658	SO352	6747.5	243
527	SO221	8712.5	113		593	SO287	7722.5	113		659	SO353	6732.5	113
528	SO222	8697.5	243		594	SO288	7707.5	243		660	SO354	6717.5	243
529	SO223	8682.5	113		595	SO289	7692.5	113		661	SO355	6702.5	113
530	SO224	8667.5	243		596	SO290	7677.5	243		662	SO356	6687.5	243
531	SO225	8652.5	113		597	SO291	7662.5	113		663	SO357	6672.5	113
532	SO226	8637.5	243		598	SO292	7647.5	243		664	SO358	6657.5	243
533	SO227	8622.5	113		599	SO293	7632.5	113		665	SO359	6642.5	113
534	SO228	8607.5	243		600	SO294	7617.5	243		666	SO360	6627.5	243
535	SO229	8592.5	113		601	SO295	7602.5	113		667	SO361	66125	113
536	SO230	8577.5	243		602	SO296	7587.5	243		668	SO362 (\	\\6597.5\\	243
537	SO231	8562.5	113		603	SO297	7572.5	113		669	SØ363 \\	6582.6	113
538	SO232	8547.5	243		604	SO298	7557.5	243		670	9 0364	6567.5	243
539	SO233	8532.5	113		605	SO299	7542.5	113		671	SQ365	6552.5	113
540	SO234	8517.5	243		606	SO300	7527.5	243		672	/\S0366	6537.5	243
541	SO235	8502.5	113	l	607	SO301	7512.5	113	/	673	✓ /2036⊅	6522.5	113
542	SO236	8487.5	243		608	SO302	7497.5	243		674 C	\$0368	6507.5	243
543	SO237	8472.5	113		609	SO303	7482.5	113	//	6 75	SO369	6492.5	113
544	SO238	8457.5	243		610	SO304	7467.5	243	//	676	SO379	6477.5	243
545	SO239	8442.5	113	Ī	611	SO305	7452.6	113	11,	671	SO371	6462.5	113
546	SO240	8427.5	243		612	SO306	7437.5\\	243	//	678	SQ372	6447.5	243
547	SO240	8412.5	113		613	SO307 /	7422.5	1113		679	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6432.5	113
								4 1 1 1					
548	SO242	8397.5	243		614	SO308	7407.5	243		680	\\\\$\O3\\\\\	6417.5	243
549	SO243	8382.5	113		615	SO309>>\	7392.5	113		-681	\\\$\Q375	6402.5	113
550	SO244	8367.5	243		616	SO <mark>3</mark> 10	7377.5	243	((682	SO376	6387.5	243
551	SO245	8352.5	113		617		7362.5	1/3		683	S O377	6372.5	113
552	SO246	8337.5	243		618) SO312	7347.5	243	//	684	SO378	6357.5	243
553	SO247	8322.5	113		619	SQ 313	7332.5	1/1/3	_ \	685	SO379	6342.5	113
554	SO248	8307.5	243	1/1	620	SO314	7317.5	243		686	SO380	6327.5	243
555	SO249	8292.5	113	///	621	SO315	7302.5	113))	687	SO381	6312.5	113
			4 111			_		\sim					
556	SO250	8277.5	243	$/\!\!/\!\!/$	622	SO316 (↑287.5 ↑	248		688	SO382	6297.5	243
557	SO251	8262.5	1/1/3//		623	SO3	7272.5	113		689	SO383	6282.5	113
558	SO252	8247,5	243	Ν	624	SQ318\	7257.5	243		690	SO384	6267.5	243
559	SO253	8232.5	113	~	625	(\$0319)	7242.5	113		691	SO385	6252.5	113
560	SO254	8217.5	243		626	\$0320	7227.5	243		692	SO386	6237.5	243
561	SQ256	8202.5	113		627	SQ321	7212.5	113		693	SO387	6222.5	113
562	\$0256	8183.5	243	1	628	\\ SO322	7197.5	243		694	SO388	6207.5	243
563	SO257	8172.5	113	/	629	SO323	7182.5	113		695	SO389	6192.5	113
564	\$0258	8157.5	243	1	630	SO324	7167.5	243		696	SO390	6177.5	243
565	\\$O259\	8142.5	113		631	SO325	7152.5	113		697	SO391	6162.5	113
566	S 0260	8127.5	243	\	632	SO326	7137.5	243		698	SO392	6147.5	243
567	SO261	8112.5	113		633	SO327	7122.5	113		699	SO393	6132.5	113
568	SO262	8097.5	243	ĺ	634	SO328	7107.5	243		700	SO394	6117.5	243
569	SO263	8082.5	113	1	635	SO329	7092.5	113		701	SO395	6102.5	113
570	SO264	8067.5	243	İ	636	SO330	7077.5	243		702	SO396	6087.5	243
571	SO265	8052.5	113		637	SO331	7062.5	113		703	SO397	6072.5	113
	SO266			ł						703			
572		8037.5	243		638	SO332	7047.5	243		_	SO398	6057.5	243
573	SO267	8022.5	113		639	SO333	7032.5	113		705	SO399	6042.5	113
574	SO268	8007.5	243		640	SO334	7017.5	243		706	SO400	6027.5	243
575	SO269	7992.5	113		641	SO335	7002.5	113		707	SO401	6012.5	113
576	SO270	7977.5	243	Ī	642	SO336	6987.5	243		708	SO402	5997.5	243
577	SO271	7962.5	113	1	643	SO337	6972.5	113		709	SO403	5982.5	113
578	SO272	7947.5	243		644	SO338	6957.5	243		710	SO404	5967.5	243
579	SO273	7932.5	113		645	SO339	6942.5	113		711	SO405	5952.5	113
580	SO274	7917.5	243		646	SO340	6927.5	243		712	SO406	5937.5	243
581	SO275	7902.5	113		647	SO341	6912.5	113		713	SO407	5922.5	113
582	SO276	7887.5	243	l	648	SO342	6897.5	243		714	SO408	5907.5	243
583	SO277	7872.5	113	Ī	649	SO343	6882.5	113		715	SO409	5892.5	113
584	SO278	7857.5	243	İ	650	SO344	6867.5	243		716	SO410	5877.5	243
	SO279	7842.5				SO345	6852.5	113		717	SO410		
585			113	l	651							5862.5	113
586	SO280	7827.5	243		652	SO346	6837.5	243		718	SO412	5847.5	243
587	SO281	7812.5	113		653	SO347	6822.5	113		719	SO413	5832.5	113

720	SO414	5817.5	243		786	SO480	4827.5	243		852	SO546	3837.5	243
721	SO415	5802.5	113		787	SO481	4812.5	113		853	SO547	3822.5	113
722	SO416	5787.5	243		788	SO482	4797.5	243		854	SO548	3807.5	243
	SQ417												
723		5772.5	113		789	SO483	4782.5	113		855	SO549	3792.5	113
724	SO418	5757.5	243		790	SO484	4767.5	243		856	SO550	3777.5	243
725	SO419	5742.5	113		791	SO485	4752.5	113		857	SO551	3762.5	113
726	SO420	5727.5	243		792	SO486	4737.5	243		858	SO552	3747.5	243
727	SO421	5712.5	113		793	SO487	4722.5	113		859	SO553	3732.5	113
728	SO422	5697.5	243		794	SO488	4707.5	243		860	SO554	3717.5	243
729	SO423	5682.5	113		795	SO489	4692.5	113		861	SO555	3702.5	113
730	SO424	5667.5	243		796	SO490	4677.5	243		862	SO556	3687.5	243
731	SO425	5652.5	113		797	SO491	4662.5	113		863	SO557	3672.5	113
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732	SO426	5637.5	243		798	SO492	4647.5	243		864	SO558	36 6 7.5	243
733	SO427	5622.5	113		799	SO493	4632.5	113		865	SO559	36425	113
734	SO428	5607.5	243		800	SO494	4617.5	243		866	SO568 (\	\\362\\\	243
735	SO429	5592.5	113		801	SO495	4602.5	113		867	SØ561	3612.6	113
												\ \\ \	
736	SO430	5577.5	243		802	SO496	4587.5	243		868	\$O562\	35 97.5	243
737	SO431	5562.5	113		803	SO497	4572.5	113		869	SQ563\\	3582.5	113
738	SO432	5547.5	243		804	SO498	4557.5	243		870	SO564	3567.5	243
739	SO433	5532.5	113		805	SO499	4542.5	113		871	SO565	3552.5	113
				l									
740	SO434	5517.5	243		806	SO500	4527.5	243		878	\$0566	3537.5	243
741	SO435	5502.5	113		807	SO501	4512.5	13	11	873	\$0567	3522.5	113
742	SO436	5487.5	243	1	808	SO502	4497.5	243	11	874	SO568	3507.5	243
743	SO437	5472.5	113	1	809	SO503	4482.5	113	11)	875	SO569	3492.5	113
										\sim			
744	SO438	5457.5	243	Į.	810	SO504	446Z.5	243	`	876	SQ570	3477.5	243
745	SO439	5442.5	113		811	SO505 /	4452.5	11/3		877	\\SO\$71\\	3462.5	113
746	SO440	5427.5	243		812	SO506	4437.5	243		878	11 90572	3447.5	243
747	SO441	5412.5	113		813	SQ507>	4422.5	113		-879	\\\$\\\$\\\$\\\$\\\$\\\$	3432.5	113
									0	$-\iota\iota$			
748	SO442	5397.5	243		814	SO 508	4407.5	243	- ((880	90574	3417.5	243
749	SO443	5382.5	113		815	SO509	4392.5	1/13	$^{\prime\prime}$	881	80575	3402.5	113
750	SO444	5367.5	243		816) SO510	4377.5	243	//	882	SO576	3387.5	243
751	SO445	5352.5	113	/	817	SQ 511	4362.5	1/1/3	\	883	SO577	3372.5	113
			243	171				-					
752	SO446	5337.5		///	818	\\ SO512	4347.5	243))	884	SO578	3357.5	243
753	SO447	5322.5	113	I/I	\8 19	SO513	4332.5	113		885	SO579	3342.5	113
754	SO448	5307.5	243	$^{\prime\prime\prime\prime}$	820	SO514 (√ 4317.5 ↑	243		886	SO580	3327.5	243
755	SO449	5292.5	1/8/1	//	821	SO5(\$	4302.5	113		887	SO581	3312.5	113
				١.	~								
756	SO450	5277,5	243	IJ.	822	50518	4287.5	243		888	SO582	3297.5	243
757	SO451 _ 1	5262.5	1)13		823	\\\$O5\ \ \\	4272.5	113		889	SO583	3282.5	113
758	SO4523	5247.5	243		824	\$Q518\\	4257.5	243		890	SO584	3267.5	243
759	SQ453	5232.5	113		825	SQ518	4242.5	113		891	SO585	3252.5	113
760	\$0454	5213.5	243	1	826	SO520	4227.5	243		892	SO586	3237.5	243
				//	$\overline{}$								
761	SO4\\\	5202.5	113		√8 2₹) SO521	4212.5	113		893	SO587	3222.5	113
762	\$0456	5187.5	243	\sim									
763	(CO4E7)			/ >	828	SO522	4197.5	243		894	SO588	3207.5	243
	\ 5 U45/	5172 5										3207.5	
	\$0457 \$0458	5172.5 5157.5	113		829	SO523	4182.5	113		895	SO589	3207.5 3192.5	113
764	\$0458	5157.5	113 243		829 830	SO523 SO524	4182.5 4167.5	113 243		895 896	SO589 SO590	3207.5 3192.5 3177.5	113 243
765	\$0458 SO459	5157.5 5142.5	113 243 113		829 830 831	SO523 SO524 SO525	4182.5 4167.5 4152.5	113 243 113		895 896 897	SO589 SO590 SO591	3207.5 3192.5 3177.5 3162.5	113 243 113
	\$0458	5157.5 5142.5 5127.5	113 243		829 830	SO523 SO524 SO525 SO526	4182.5 4167.5 4152.5 4137.5	113 243		895 896	SO589 SO590 SO591 SO592	3207.5 3192.5 3177.5	113 243
765	\$0458 SO459	5157.5 5142.5	113 243 113		829 830 831	SO523 SO524 SO525	4182.5 4167.5 4152.5	113 243 113		895 896 897	SO589 SO590 SO591	3207.5 3192.5 3177.5 3162.5	113 243 113
765 766 767	\$0458 \$0459 \$0460 \$0461	5157.5 5142.5 5127.5 5112.5	113 243 113 243 113		829 830 831 832 833	SO523 SO524 SO525 SO526 SO527	4182.5 4167.5 4152.5 4137.5 4122.5	113 243 113 243 113		895 896 897 898 899	SO589 SO590 SO591 SO592 SO593	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5	113 243 113 243 113
765 766 767 768	\$0458 \$0459 \$0460 \$0461 \$0462	5157.5 5142.5 5127.5 5112.5 5097.5	113 243 113 243 113 243		829 830 831 832 833 834	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5	113 243 113 243 113 243		895 896 897 898 899 900	SO589 SO590 SO591 SO592 SO593 SO594	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5	113 243 113 243 113 243
765 766 767 768 769	\$0458 \$0459 \$0460 \$0461 \$0462 \$0463	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5	113 243 113 243 113 243 113		829 830 831 832 833 834 835	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5	113 243 113 243 113 243 113		895 896 897 898 899 900	SO589 SO590 SO591 SO592 SO593 SO594 SO595	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5	113 243 113 243 113 243 113
765 766 767 768 769 770	\$0458 \$0459 \$0460 \$0461 \$0462 \$0463 \$0464	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5	113 243 113 243 113 243 113 243 243		829 830 831 832 833 834 835 836	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5	113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5	113 243 113 243 113 243 113 243 243
765 766 767 768 769	\$0458 \$0459 \$0460 \$0461 \$0462 \$0463	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5	113 243 113 243 113 243 113		829 830 831 832 833 834 835	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5	113 243 113 243 113 243 113		895 896 897 898 899 900	SO589 SO590 SO591 SO592 SO593 SO594 SO595	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5	113 243 113 243 113 243 113
765 766 767 768 769 770 771	\$0458 \$0459 \$0460 \$0461 \$0462 \$0463 \$0464 \$0465	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5	113 243 113 243 113 243 113 243 113		829 830 831 832 833 834 835 836 837	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5	113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5	113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5	113 243 113 243 113 243 113 243 113 243		829 830 831 832 833 834 835 836 837	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5 4047.5	113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5	113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O467	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5	113 243 113 243 113 243 113 243 113 243 113		830 831 832 833 834 835 836 837 838	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4007.5 4062.5 4047.5 4032.5	113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5	113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5	113 243 113 243 113 243 113 243 113 243		829 830 831 832 833 834 835 836 837	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5 4047.5	113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5	113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O467	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5	113 243 113 243 113 243 113 243 113 243 113		830 831 832 833 834 835 836 837 838	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4007.5 4062.5 4047.5 4032.5	113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5	113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O467 \$O468 \$O469	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5	113 243 113 243 113 243 113 243 113 243 113 243 113		830 830 831 832 833 834 835 836 837 838 839 840	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5 4047.5 4032.5 4017.5 4002.5	113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5	113 243 113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775 776	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O466 \$O467 \$O468 \$O469 \$O470	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5 4977.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		830 830 831 832 833 834 835 836 837 838 839 840 841	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0536	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904 905 906 907	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3027.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
765 766 767 768 769 770 771 772 773 774 775 776	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O466 \$O466 \$O467 \$O468 \$O469 \$O470	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5 4977.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		829 830 831 832 833 834 835 836 837 838 839 840 841 842	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4007.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906 907 908	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775 776	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O466 \$O467 \$O468 \$O469 \$O470	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5 4977.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		830 830 831 832 833 834 835 836 837 838 839 840 841	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0536	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904 905 906 907	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3027.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
765 766 767 768 769 770 771 772 773 774 775 776	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O466 \$O466 \$O467 \$O468 \$O469 \$O470	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5 4977.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		829 830 831 832 833 834 835 836 837 838 839 840 841 842	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4007.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906 907 908	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775 776 777 778	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O467 \$O468 \$O469 \$O470 \$O471 \$O472 \$O473	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5 4992.5 4947.5 4932.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		829 830 831 832 833 834 835 836 837 838 840 841 842 843	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538	4182.5 4167.5 4152.5 4137.5 4122.5 4107.5 4092.5 4077.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5 3987.5 3957.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 302.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2982.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780	\$\instyle{\sqrt{9458}}\$\$\text{S0458}\$\$\text{S0459}\$\$\text{S0460}\$\$\text{S0461}\$\$\text{S0462}\$\$\text{S0463}\$\$\text{S0464}\$\$\text{S0465}\$\$\text{S0466}\$\$\text{S0467}\$\$\text{S0468}\$\$\text{S0469}\$\$\text{S0470}\$\$\text{S0471}\$\$\text{S0471}\$\$\text{S0473}\$\$\text{S0474}\$\$	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5 4997.5 4962.5 4947.5 4932.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		830 831 832 833 834 835 836 837 838 839 840 841 842 843 844	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0539	4182.5 4167.5 4167.5 4152.5 4137.5 4107.5 4092.5 4007.5 4062.5 4047.5 4002.5 4017.5 4002.5 3987.5 3972.5 3957.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2982.5 2952.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O467 \$O468 \$O469 \$O470 \$O471 \$O472 \$O473 \$O474	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 507.5 502.5 5007.5 4992.5 4977.5 4962.5 4947.5 4947.5 4902.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		820 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845	\$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541	4182.5 4167.5 4167.5 4152.5 4137.5 4122.5 4092.5 4092.5 4077.5 4062.5 4047.5 4002.5 3987.5 3972.5 3957.5 3957.5 3927.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606 \$0606	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3042.5 3027.5 3012.5 2997.5 2982.5 2962.5 2952.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780	\$\instyle{\sqrt{9458}}\$\$\text{S0458}\$\$\text{S0459}\$\$\text{S0460}\$\$\text{S0461}\$\$\text{S0462}\$\$\text{S0463}\$\$\text{S0464}\$\$\text{S0465}\$\$\text{S0466}\$\$\text{S0467}\$\$\text{S0468}\$\$\text{S0469}\$\$\text{S0470}\$\$\text{S0471}\$\$\text{S0471}\$\$\text{S0473}\$\$\text{S0474}\$\$	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5 4997.5 4962.5 4947.5 4932.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		830 831 832 833 834 835 836 837 838 839 840 841 842 843 844	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542	4182.5 4167.5 4167.5 4152.5 4137.5 4107.5 4092.5 4007.5 4062.5 4047.5 4002.5 4017.5 4002.5 3987.5 3972.5 3957.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606 \$0607 \$0608	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2982.5 2952.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	\$Q458 \$O459 \$O460 \$O461 \$O462 \$O463 \$O464 \$O465 \$O466 \$O467 \$O468 \$O469 \$O470 \$O471 \$O472 \$O473 \$O474 \$O475 \$O476	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 4992.5 4992.5 4947.5 4962.5 4917.5 4902.5 4902.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		830 831 832 833 834 835 836 837 838 840 841 842 843 844 845 846 847	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542	4182.5 4167.5 4167.5 4152.5 4137.5 4192.5 4092.5 4092.5 4047.5 4062.5 4047.5 4002.5 4002.5 3987.5 3987.5 3957.5 3942.5 3927.5 3927.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606 \$0607 \$0608	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2982.5 2957.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783	\$\sqrt{9458}\$ \$\sqrt{9458}\$ \$\sqrt{9460}\$ \$\sqrt{9461}\$ \$\sqrt{9461}\$ \$\sqrt{9462}\$ \$\sqrt{9463}\$ \$\sqrt{9464}\$ \$\sqrt{9465}\$ \$\sqrt{9466}\$ \$\sqrt{9467}\$ \$\sqrt{9468}\$ \$\sqrt{9477}\$	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 4992.5 4992.5 4947.5 4962.5 4917.5 4902.5 4917.5 4902.5 487.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0541 \$0542 \$0543	4182.5 4167.5 4167.5 4152.5 4137.5 4192.5 4092.5 4092.5 4047.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5 3987.5 3997.5 3927.5 3927.5 3927.5 3927.5 3927.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606 \$0607 \$0608 \$0609	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2987.5 2982.5 2922.5 2907.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113
765 766 767 768 769 770 771 772 773 774 775 776 777 780 780 781 782 783	\$\sqrt{9458}\$ \$O459\$ \$O460\$ \$O461\$ \$O462\$ \$O463\$ \$O464\$ \$O465\$ \$O466\$ \$O467\$ \$O468\$ \$O469\$ \$O477\$ \$O472\$ \$O473\$ \$O474\$ \$O475\$ \$O476\$ \$O478	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5007.5 5022.5 5007.5 4992.5 497.5 4962.5 4947.5 4962.5 4947.5 4962.5 4947.5 4962.5 497.5 4962.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		829 830 831 832 833 834 835 836 837 838 849 840 841 842 843 844 845 846 847 848 849	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542 \$0543 \$0542	4182.5 4167.5 4167.5 4152.5 4137.5 4122.5 4007.5 4092.5 4007.5 4007.5 4007.5 4007.5 4007.5 4007.5 3987.5 3987.5 3997.5 3912.5 3927.5 3912.5 3882.5 3882.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606 \$0607 \$0608 \$0609 \$0609	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 302.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2982.5 2922.5 2922.5 2997.5 2992.5 2992.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783	\$\sqrt{9458}\$ \$\sqrt{9458}\$ \$\sqrt{9460}\$ \$\sqrt{9461}\$ \$\sqrt{9461}\$ \$\sqrt{9462}\$ \$\sqrt{9463}\$ \$\sqrt{9464}\$ \$\sqrt{9465}\$ \$\sqrt{9466}\$ \$\sqrt{9467}\$ \$\sqrt{9468}\$ \$\sqrt{9477}\$	5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 4992.5 4992.5 4947.5 4962.5 4917.5 4902.5 4917.5 4902.5 487.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847	\$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0541 \$0542 \$0543	4182.5 4167.5 4167.5 4152.5 4137.5 4192.5 4092.5 4092.5 4047.5 4062.5 4047.5 4032.5 4017.5 4002.5 3987.5 3987.5 3997.5 3927.5 3927.5 3927.5 3927.5 3927.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113		895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914	\$0589 \$0590 \$0591 \$0592 \$0593 \$0594 \$0595 \$0596 \$0597 \$0598 \$0599 \$0600 \$0601 \$0602 \$0603 \$0604 \$0605 \$0606 \$0607 \$0608 \$0609	3207.5 3192.5 3177.5 3162.5 3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2987.5 2982.5 2922.5 2907.5	113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 113 243 113 113 113 113 113 113 113 113 113 1

918	SO612	2847.5	243		984	SO678	1857.5	243		1050	SO744	867.5	243
919	SO613	2832.5	113		985	SO679	1842.5	113		1051	SO745	852.5	113
920	SO614	2817.5	243		986	SO680	1827.5	243		1052	SO746	837.5	243
921	SO615	2802.5	113		987	SO681	1812.5	113		1053	SO747	822.5	113
922	SO616	2787.5	243		988	SO682	1797.5	243		1054	SO748	807.5	243
923	SO617	2772.5	113		989	SO683	1782.5	113		1055	SO749	792.5	113
924	SO618	2757.5	243		990	SO684	1767.5	243		1056	SO750	777.5	243
925	SO619	2742.5	113		991	SO685	1752.5	113		1057	SO751	762.5	113
926	SO620	2727.5	243		992	SO686	1737.5	243		1058	SO752	747.5	243
927	SO621	2712.5	113		993	SO687	1722.5	113		1059	SO753	732.5	113
928	SO622	2697.5	243		994	SO688	1707.5	243		1060	SO754	717.5	243
929	SO623					SO689				1061	SO755	702.5	
		2682.5	113		995		1692.5	113					113
930	SO624	2667.5	243		996	SO690	1677.5	243		1062	SO756	68X.5	243
931	SO625	2652.5	113		997	SO691	1662.5	113		1063	SO757	672.5	113
932	SO626	2637.5	243		998	SO692	1647.5	243		1064	SO758 (\	1/6\$x51	243
933	SO627	2622.5	113		999	SO693	1632.5	113		1065	SØ759 \\	642.5	113
934	SO628	2607.5	243		1000	SO694	1617.5	243		1066	\$\OT60\	627.5	243
935	SO629	2592.5	113		1001	SO695	1602.5	113		1067	S0761	612.5	113
936	SO630	2577.5	243		1002	SO696	1587.5	243		1068	1150x62	597.5	243
937	SO631	2562.5	113		1002	SO697	1572.5	113		1069	\$0763	582.5	113
										\sim			
938	SO632	2547.5	243		1004	SO698	1557.5	243	$\langle \cdot \rangle$	1070	\$0764	567.5	243
939	SO633	2532.5	113		1005	SO699	1542.5	113	//	1071	\$0765	552.5	113
940	SO634	2517.5	243		1006	SO700	1527.5	243	VV	1072	SO766	537.5	243
941	SO635	2502.5	113		1007	SO701	1512.6	113	//	1073	SO767	522.5	113
942	SO636	2487.5	243		1008	SO702	1 49 7.5	243	//	1074	SQX68	507.5	243
943	SO637	2472.5	113		1009	SO703 /	1482.5	113		1075	SHIEDDING	455.0	258
944	SO638	2457.5	243		1010	SO704 (1467.5	243		1076	SHIELDING !	405.0	258
945	SO639	2442.5	113		1011	SO7705>\	1452.5\	113		<u> 10XX</u>	SHIETDING	355.0	258
946	SO640	2427.5	243		1012	SO(706	1437.5	243	1 ((1078	SHIPLEDING	50.0	258
947	SO641	2412.5	113		1013	SO707	1422.5	1/13	//	1079	SHÆLDING	0.0	258
948	SO642	2397.5	243		1014) 60708	1407.5	24 3		1080	SHIELDING	-50.0	258
949	SO643	2382.5	113	/	1015	\$Q 709	1392.5	1/1/3)	1081	SHIELDING	-355.0	258
950	SO644	2367.5	243	1/1	1016	SO710	1377.5	243		1082	SHIELDING	-405.0	258
951	SO645	2352.5	113	///	1017	SO711	1362.5	113	$\overline{}$	1083	SHIELDING	-455.0	258
952	SO646	2337.5_	243	$\langle II \rangle$	1018	SO712	→ 1347.5 T	248		1084	SO769	-507.5	243
		-		///							SO770		
953	SO647	2322.5	11/3	\ `	1019	SO7(3	1332.5	113		1085		-522.5	113
954	SO648	2307\\$	243	Ŋ	1020	50714	1317.5	243		1086	SO771	-537.5	243
955	SO649	(2292.5)	1)13		1021	(\$07\\$ \\	1302.5	113		1087	SO772	-552.5	113
956	SO650	2277.5	243		1022	\$Q 716\\	1287.5	243		1088	SO773	-567.5	243
957	SQ65(2262.5	113	١.	1023	SQX17	1272.5	113		1089	SO774	-582.5	113
958	\\$\\0652\\	2247.5	243	$ \mathcal{U} $	1024	\\ SO748	1257.5	243		1090	SO775	-597.5	243
959	SO653	2232.5	113		1025	SO719	1242.5	113		1091	SO776	-612.5	113
960	\$0654	2217.5	243		1026	SO720	1227.5	243		1092	S0777	-627.5	243
961	\$O655	2202.5	113	11.	1027	SO721	1212.5	113		1093	SO778	-642.5	113
							1197.5				SO779		
962	\$0656	2187.5	243	`	1028	SO722		243		1094		-657.5	243
963	SO657	2172.5	113		1029	SO723	1182.5	113		1095	SO780	-672.5	113
964	SO658	2157.5	243		1030	SO724	1167.5	243		1096	SO781	-687.5	243
965	SO659	2142.5	113		1031	SO725	1152.5	113		1097	SO782	-702.5	113
966	SO660	2127.5	243		1032	SO726	1137.5	243		1098	SO783	-717.5	243
967	SO661	2112.5	113	l	1033	SO727	1122.5	113		1099	SO784	-732.5	113
968	SO662	2097.5	243	1	1034	SO728	1107.5	243		1100	SO785	-747.5	243
969	SO663	2082.5	113		1035	SO729	1092.5	113		1101	SO786	-762.5	113
970	SO664							243					243
		2067.5	243	l	1036	SO730	1077.5			1102	SO787	-777.5	
971	SO665	2052.5	113		1037	SO731	1062.5	113		1103	SO788	-792.5	113
972	SO666	2037.5	243		1038	SO732	1047.5	243		1104	SO789	-807.5	243
973	SO667	2022.5	113		1039	SO733	1032.5	113		1105	SO790	-822.5	113
974	SO668	2007.5	243		1040	SO734	1017.5	243		1106	SO791	-837.5	243
975	SO669	1992.5	113	Ī	1041	SO735	1002.5	113		1107	SO792	-852.5	113
976	SO670	1977.5	243	1	1042	SO736	987.5	243		1108	SO793	-867.5	243
977	SO671	1962.5	113		1043	SO737	972.5	113		1109	SO794	-882.5	113
				l				243			SO795		
978	SO672	1947.5	243	l	1044	SO738	957.5			1110		-897.5	243
979	SO673	1932.5	113	l	1045	SO739	942.5	113		1111	SO796	-912.5	113
980	SO674	1917.5	243		1046	SO740	927.5	243		1112	SO797	-927.5	243
_						00-11	040.5	440	Ī	1113	SO798	040.5	113
981	SO675	1902.5	113		1047	SO741	912.5	113		1113	50/98	-942.5	
981 982		1902.5 1887.5	113 243		1047 1048	SO741 SO742	912.5 897.5	243		1114	SO798 SO799	-942.5 -957.5	243
	SO675												

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1116	SO801	-987.5	243	J	1182	SO867	-1977.5	243		1248	SO933	-2967.5	243
1117	SO802	-1002.5	113	J	1183	SO868	-1992.5	113		1249	SO934	-2982.5	113
1118	SO803	-1017.5	243	1	1184	SO869	-2007.5	243		1250	SO935	-2997.5	243
1119	SO804	-1032.5	113	1	1185	SO870	-2022.5	113		1251	SO936	-3012.5	113
1120	SO805	-1047.5	243	ł	1186	SO871	-2037.5	243		1252	SO937	-3027.5	243
				4									
1121	SO806	-1062.5	113		1187	SO872	-2052.5	113		1253	SO938	-3042.5	113
1122	SO807	-1077.5	243	J	1188	SO873	-2067.5	243		1254	SO939	-3057.5	243
1123	SO808	-1092.5	113	1	1189	SO874	-2082.5	113		1255	SO940	-3072.5	113
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1125	SO810	-1122.5	113	1	1191	SO876	-2112.5	113		1257	SO942	-3102.5	113
-				1									
1126	SO811	-1137.5	243	4	1192	SO877	-2127.5	243		1258	SO943	-3117.5	243
1127	SO812	-1152.5	113	1	1193	SO878	-2142.5	113		1259	SO944	-3132.5	113
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1129	SO814	-1182.5	113		1195	SO880	-2172.5	113		1261	SO946	1,-3162.5	113
1130	SO815	-1197.5	243	1	1196	SO881	-2187.5	243		1262	SO947	1/34xz.5	243
1131	SO816	-1212.5	113	1	1197	SO882	-2202.5	113		1263	SØ948	3192.5	113
-	SO817	-1227.5		1	1198	SO883	-2217.5			1264	90949	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 	243
1132			243	4				243			_ ++ ++	\\-\\$\\207.5	
1133	SO818	-1242.5	113	1	1199	SO884	-2232.5	113		1265	SQ950 \\	8222.5	113
1134	SO819	-1257.5	243	J	1200	SO885	-2247.5	243		1268	\\\SQ\\\5\\\\	-3237.5	243
1135	SO820	-1272.5	113	1	1201	SO886	-2262.5	113	_ ا	1267	√ \\$O952	-3252.5	113
1136	SO821	-1287.5	243	1	1202	SO887	-2277.5	243 <		1208	\$0953	-3267.5	243
1137	SO822	-1302.5	113	1	1203	SO888	-2292.5	13	1	1269	SO954	-3282.5	113
1138	SO823	-1302.5	243	1	1203	SO889	-2307.5	243	(//	1270	SO955	-3202.5	243
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1139	SO824	-1332.5	113		1205	SO890	-2322.5	113		1271	SO956	-3312.5	113
1140	SO825	-1347.5	243	1	1206	SO891	-2337.5	243	\	1272	\$Q957	-3327.5	243
1141	SO826	-1362.5	113	J	1207	SO892	-2362:6	11/3		1273	√\\SO9\$8\\	- 3342.5	113
1142	SO827	-1377.5	243		1208	SO893	-28675	243		1274	// \\$O959_\\	-3357.5	243
1143	SO828	-1392.5	113	1	1209	SQ894>\	-2382.5	113	_	-12X5	\\S\0960	-3372.5	113
1144	SO829	-1407.5	243	1	1210	SO 895	2397.5	243	$-\alpha$	1276	90961	-3387.5	243
1145	SO830	-1422.5	113	1	1211	SO896	-2412.5	1/13	//	1277	8 O962	-3402.5	113
1146	SO831	-1422.5		1	-	BO897	-2412.5	243	1		_		243
-			243	١.	1212				/	1278	SO963	-3417.5	
1147	SO832	-1452.5	113	~<	1213	\$Q 898	-2442(5	1/1/3	,	1279	SO964	-3432.5	113
1148	SO833	-1467.5	243	$^{\prime\prime\prime}$	1213	// SO899	-2457,5	243		1280	SO965	-3447.5	243
1149	SO834	-1482.5	113	1//	1215	√SO900 _	472.5	113		1281	SO966	-3462.5	113
1150	SO835	-1497.5	243	7//	1216	SO901 (√ -2487.5 √	243		1282	SO967	-3477.5	243
1151	SO836	-1512.8	1181		1217	SO902	-2502.5	113		1283	SO968	-3492.5	113
1152	SO837	1527.5	243	Λ	1218	SQ903	-2517.5	243		1284	SO969	-3507.5	243
1153	SO838	(-1542.6	1113	\sim	1219	(SO90A)	2532.5	113		1285	SO970	-3522.5	113
1154	SO8392	1557.5	243	1	1220	\$0905	-2547.5	243		1286	SO970	-3537.5	243
			_	4	\sim								
1155	SQ840	\\-1572.5	113	_	1221	SQ308	-2562.5	113		1287	SO972	-3552.5	113
1156	\$0841	₹ 1,587.5	243	1//	1222	\\ SO907	-2577.5	243		1288	SO973	-3567.5	243
1157	SO842 \\	- 16 02.5	113	'	1223) SO908	-2592.5	113		1289	SO974	-3582.5	113
1158	_\$\@843\	-1617.5	243		1224	SO909	-2607.5	243		1290	SO975	-3597.5	243
1159	\\$O844\	-1632.5	113	//	1225	SO910	-2622.5	113		1291	SO976	-3612.5	113
1160	\$0845	-1647.5	243	//	1226	SO911	-2637.5	243		1292	SO977	-3627.5	243
1161	SO846	-1662.5	113	1	1227	SO912	-2652.5	113		1293	SO978	-3642.5	113
1162	SO847	-1677.5	243	1	1228	SO913	-2667.5	243		1294	SO979	-3657.5	243
1163	SO848	-1677.5	113	ł	1229	SO913	-2682.5	113		1294	SO980	-3672.5	113
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1164	SO849	-1707.5	243	4	1230	SO915	-2697.5	243		1296	SO981	-3687.5	243
1165	SO850	-1722.5	113	4	1231	SO916	-2712.5	113		1297	SO982	-3702.5	113
1166	SO851	-1737.5	243	1	1232	SO917	-2727.5	243		1298	SO983	-3717.5	243
1167	SO852	-1752.5	113	1	1233	SO918	-2742.5	113		1299	SO984	-3732.5	113
1168	SO853	-1767.5	243	1	1234	SO919	-2757.5	243		1300	SO985	-3747.5	243
1169	SO854	-1782.5	113	1	1235	SO920	-2772.5	113		1301	SO986	-3762.5	113
1170	SO855	-1797.5	243	1	1236	SO921	-2787.5	243		1302	SO987	-3777.5	243
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1173	SO858	-1842.5	113	1	1239	SO924	-2832.5	113		1305	SO990	-3822.5	113
1174	SO859	-1857.5	243	1	1240	SO925	-2847.5	243		1306	SO991	-3837.5	243
1175	SO860	-1872.5	113	1	1241	SO926	-2862.5	113		1307	SO992	-3852.5	113
1176	SO861	-1887.5	243	1	1242	SO927	-2877.5	243		1308	SO993	-3867.5	243
1177	SO862	-1902.5	113	1	1243	SO928	-2892.5	113		1309	SO994	-3882.5	113
1178	SO863	-1917.5		1	1244	SO929	-2092.5				SO995	-3897.5	
			243	ł				243		1310			243
1179	SO864	-1932.5	113	4	1245	SO930	-2922.5	113		1311	SO996	-3912.5	113
1180	SO865	-1947.5	243	4	1246	SO931	-2937.5	243		1312	SO997	-3927.5	243
1181	SO866	-1962.5	113	1	1247	SO932	-2952.5	113		1313	SO998	-3942.5	113
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1314 SO999 -3957.5 243 1380 SO1065 -4947.5 243 1446 SO1131 1315 SO1000 -3972.5 113 1381 SO1066 -4962.5 113 1347 SO1102 SO1002 -4002.5 113 1383 SO1068 -4992.5 113 1449 SO1134 1318 SO1003 -4017.5 243 1384 SO1069 -5007.5 243 1448 SO1133 1319 SO1004 -4032.5 113 1385 SO1070 -5022.5 113 1449 SO1134 1320 SO1005 -4047.5 243 1386 SO1070 -5022.5 113 1451 SO1136 1322 SO1006 -4062.5 113 1387 SO1072 -5052.5 113 1452 SO1137 1321 SO1006 -4062.5 113 1388 SO1073 -5067.5 243 1452 SO1137 1322 SO1007 -4077.5 243 1388 SO1073 -5067.5 243 1454 SO1139 1323 SO1008 -4092.5 113 1389 SO1074 -5082.5 113 1455 SO1140 1324 SO1009 -4107.5 243 1390 SO1076 -5112.5 113 1456 SO1141 1326 SO1011 -4137.5 243 1391 SO1076 -5112.5 113 1457 SO1142 1328 SO1013 -4167.5 243 1394 SO1079 -5157.5 243 1458 SO1143 1329 SO1014 -4182.5 113 1393 SO1080 -5172.5 113 1459 SO1144 1328 SO1015 -4212.5 113 1396 SO1080 -5172.5 113 1461 SO1146 SO1145 1334 SO1016 -4212.5 113 1399 SO1080 -5172.5 113 1461 SO1146 SO1146 SO1145 SO1139 SO1080 -5202.5 113 1461 SO1146 SO1145 SO1133 SO1016 -4212.5 113 1399 SO1080 -5217.5 243 1460 SO1145 SO1145 SO1133 SO1016 -4227.5 243 1398 SO1081 -5187.5 243 1462 SO1145 SO1155 SO1155 SO1155 SO1155 SO1020 -4287.5 243 SO1086 -5262.5 SO155 SO1155 SO1155 SO1155 SO1020 -4287.5 243 SO1086 -5262.5 SO155 SO1155 SO1155 SO1056 SO10	-5937.5 -5952.5 -5967.5 -5982.5 -5997.5 -6012.5 -6042.5 -6072.5 -6072.5 -6102.5 -6102.5 -6132.5 -6132.5 -6132.5 -622.5 -6222.5 -6237.5 -6252.5 -6267.5	243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243 113 243
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1341 SO1026 -4362.5 113 1407 SO1092 -5352.5 113 443 601158	-6342.5	113
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1343 S01028 -4392.5 113 1409 S01094 -5382.5 113 1475 S01160	-6372.5	113
1344 SO1029 -4407.5 243 1410 \$0109\$ -5397.5 243 1476 SO1161	-6387.5	243
1345 SO1030 -4422.5 113 441N SO1096 -54125 113 1477 SO1162	-6402.5	113
1346 SO1031 -4437.5 243 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-6417.5	243
1347 SO1032 -4452.5 113 SO1098 5442.5 113 1479 SO1164	-6432.5	113
1348 SO1033 -4467.5 243\\ 14\\ SO1099 -5457.5 \ 248 1480 SO1165	-6447.5	243
1349 SO1034 -4482,5 133 1415 SO1100 -5432,5 113 1481 SO1166	-6462.5	113
1350 SO1035 4497.5 243 1416 801401 -5487.5 243 1482 SO1167	-6477.5	243
1351 SO1036 4512.6 113 1417 SO1102 5502.5 113 1483 SO1168	-6492.5	113
1352 SO1037 4527.5 243 1418 SQ1103 -5517.5 243 1484 SO1169	-6507.5	243
1353 SQ1038 \-4542.5 113 \(\frac{1419}{1419} \) SQ104 \(\frac{1}{2} -5532.5 \) 113 \(\frac{1485}{1485} \) SQ1170	-6522.5	113
1354 60 039 4557.5 243 420 SO1105 -5547.5 243 1486 SO1171	-6537.5	243
1355 SO1040 -4572.5 118 1481 SO1106 -5562.5 113 1487 SO1172	-6552.5	113
1356 801041 -4587.5 243 4422 SO1107 -5577.5 243 1488 SO1173	-6567.5	243
1357 \$\sqrt{01042}	-6582.5	113
1358 SQ1043 -4617.5 243 1424 SQ1109 -5607.5 243 1490 SQ1175	-6597.5	243
1359 SO1044 -4632.5 113 1425 SO1110 -5622.5 113 1491 SO1176	-6612.5	113
1360 SO1045 -4647.5 243 1426 SO1111 -5637.5 243 1492 SO1177	-6627.5	243
1361 SO1046 -4662.5 113 1427 SO1112 -5652.5 113 1493 SO1178	-6642.5	113
1362 SO1047 -4677.5 243 1428 SO1113 -5667.5 243 1494 SO1179	-6657.5	243
1363 SO1048 -4692.5 113 1429 SO1114 -5682.5 113 1495 SO1180	-6672.5	113
	-6687.5	243
1365 SO1050 -4722.5 113 1431 SO1116 -5712.5 113 1497 SO1182	-6702.5	113
1366 SO1051 -4737.5 243 1432 SO1117 -5727.5 243 1498 SO1183	-6717.5	243
1367 SO1052 -4752.5 113 1433 SO1118 -5742.5 113 1499 SO1184	-6732.5	113
	-6747.5	243
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1369 SO1054 -4782.5 113 1435 SO1120 -5772.5 113 1501 SO1186	-6762.5	113
1370 SO1055 -4797.5 243 1436 SO1121 -5787.5 243 1502 SO1187	-6777.5	243
1371 SO1056 -4812.5 113 1437 SO1122 -5802.5 113 1503 SO1188	-6792.5	113
1372 SO1057 -4827.5 243 1438 SO1123 -5817.5 243 1504 SO1189	-6807.5	243
1373 SO1058 -4842.5 113 1439 SO1124 -5832.5 113 1505 SO1190	-6822.5	113
1374 SO1059 -4857.5 243 1440 SO1125 -5847.5 243 1506 SO1191	-6837.5	243
1375 SO1060 -4872.5 113 1441 SO1126 -5862.5 113 1507 SO1192	-6852.5	113
	-6867.5	_
1376 SO1061 -4887.5 243 1442 SO1127 -5877.5 243 1508 SO1193		243
1377 SO1062 -4902.5 113 1443 SO1128 -5892.5 113 1509 SO1194	-6882.5	113
1378 SO1063 -4917.5 243 1444 SO1129 -5907.5 243 1510 SO1195	-6897.5	243
1379 SO1064 -4932.5 113 1445 SO1130 -5922.5 113 1511 SO1196	-6912.5	113
1002.0 110 110 001100 0022.0 110 1011 001100	0012.0	

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1512	SO1197	-6927.5	243		1578	SO1263	-7917.5	243		1644	SO1329	-8907.5	243
1513	SO1198	-6942.5	113		1579	SO1264	-7932.5	113		1645	SO1330	-8922.5	113
1514	SO1199	-6957.5	243		1580	SO1265	-7947.5	243		1646	SO1331	-8937.5	243
1515	SO1200	-6972.5	113	1	1581	SO1266	-7962.5	113		1647	SO1332	-8952.5	113
1516	SO1201	-6987.5	243	1	1582	SO1267	-7977.5	243		1648	SO1333	-8967.5	243
1517	SO1202	-7002.5	113		1583	SO1268	-7992.5	113		1649	SO1334	-8982.5	113
				ŀ									
1518	SO1203	-7017.5	243		1584	SO1269	-8007.5	243		1650	SO1335	-8997.5	243
1519	SO1204	-7032.5	113		1585	SO1270	-8022.5	113		1651	SO1336	-9012.5	113
1520	SO1205	-7047.5	243		1586	SO1271	-8037.5	243		1652	SO1337	-9027.5	243
1521	SO1206	-7062.5	113		1587	SO1272	-8052.5	113		1653	SO1338	-9042.5	113
1522	SO1207	-7077.5	243	İ	1588	SO1273	-8067.5	243		1654	SO1339	-9057.5	243
1523	SO1208	-7092.5	113		1589	SO1274	-8082.5	113		1655	SO1340	-9072.5	113
				ł								_	
1524	SO1209	-7107.5	243		1590	SO1275	-8097.5	243		1656	SO1341	-9087.5	243
1525	SO1210	-7122.5	113		1591	SO1276	-8112.5	113		1657	SO1342	1/20102.5	113
1526	SO1211	-7137.5	243		1592	SO1277	-8127.5	243		1658	SO1343(\	\\9 \$ `\\7. 5 \	243
1527	SO1212	-7152.5	113		1593	SO1278	-8142.5	113		1659	SQ13 4 4	\9132.5	113
1528	SO1213	-7167.5	243	1	1594	SO1279	-8157.5	243		1660	\$ 01345	-9147.5	243
1529	SO1214	-7182.5	113	İ	1595	SO1280	-8172.5	113		1661	SQ1346\\	9162.5	113
1530	SO1215	-7197.5	243	ł	1596	SO1281	-8187.5	243		1862	1504347	-9177.5	243
1531	SO1216	-7212.5	113		1597	SO1282	-8202.5	113		1663	901348	-9192.5	113
1532	SO1217	-7227.5	243		1598	SO1283	-8217.5	243	K	1664	\$01349	-9207.5	243
1533	SO1218	-7242.5	113		1599	SO1284	-8232.5	113	//	1005	8 O1350	-9222.5	113
1534	SO1219	-7257.5	243		1600	SO1285	-8247.5	243	''	1666	SO1351	-9237.5	243
1535	SO1220	-7272.5	113	Ī	1601	SO1286	-8262.5	113	//	1687	SO1852	-9252.5	113
1536	SO1221	-7287.5	243		1602	SO1287	- 82 77.5	243		1668	SQ1353	-9267.5	243
1537	SO1222	-7302.5	113		1603	SO1288 /	8292.6	11/3	`	1669	SO1354\	<u>√</u> 9282.5	113
	SO1223										\$01355	-9297.5	
1538		-7317.5	243		1604	SO1289	-8807/5	243		1670			243
1539	SO1224	-7332.5	113		1605	SO1296>\	-8322.5	113		−16₹ 1	\\$0\\356	-9312.5	113
1540	SO1225	-7347.5	243		1606	SO 291	8387.5	243	((1672	\$01357	-9327.5	243
1541	SO1226	-7362.5	113		1607	SO1292	-8352.5	1/3		1673	\$01358	-9342.5	113
1542	SO1227	-7377.5	243	İ	1608	\$O1293	-8367.5	243	//	1674	SO1359	-9357.5	243
1543	SO1228	-7392.5	113		1609	\$01294	-8382(5	1/1/3	\	1675	SO1360	-9372.5	113
1544	SO1229	-7407.5	243	170	1610	SO1295	-8397,5	243	,	1676	SO1361	-9387.5	243
				///	\ <u> </u>		_/))				
1545	SO1230	-7422.5	113		1611	SO1296	8412.5	113		1677	SO1362	-9402.5	113
1546	SO1231	-7437.5	243	///	1612	SO1297	√-8427.5 √	243		1678	SO1363	-9417.5	243
1547	SO1232	-7452.8	1/1/3//	()	1613	SO1298	-8442.5	113		1679	SO1364	-9432.5	113
1548	SO1233	74 67.5	243	Ν	1614	801299	-8457.5	243		1680	SO1365	-9447.5	243
1549	SO1234	-7482.5	113	\sim	1615	\$O1300 \\	-8472.5	113		1681	SO1366	-9462.5	113
1550	SO12353	-7497.5	243	İ	1616	\$01301	-8487.5	243		1682	SO1367	-9477.5	243
1551	SQ1236	\-X 5 12.5	113		1617	SO1302	-8502.5	113		1683	SO1368	-9492.5	113
1552	60 1237	7527.5	243	1	1618	\\SO1303	-8517.5	243		1684	SO1369	-9507.5	243
				/	$\overline{}$								
1553	SO1238 \\	-7542.5	113		1619	SO1304	-8532.5	113		1685	SO1370	-9522.5	113
1554	801239	-7557.5	243	1	1620	SO1305	-8547.5	243		1686	SO1371	-9537.5	243
1555	\\$O1240	-7572.5	113	//	1621	SO1306	-8562.5	113		1687	SO1372	-9552.5	113
1556	\$01241	-7587.5	243	\	1622	SO1307	-8577.5	243		1688	SO1373	-9567.5	243
1557	SO1242	-7602.5	113		1623	SO1308	-8592.5	113		1689	SO1374	-9582.5	113
1558	SO1243	-7617.5	243	1	1624	SO1309	-8607.5	243		1690	SO1375	-9597.5	243
1559	SO1244	-7632.5	113	İ	1625	SO1310	-8622.5	113		1691	SO1376	-9612.5	113
1560	SO1245	-7647.5	243	ł	1626	SO1311	-8637.5	243		1692	SO1377	-9627.5	243
	SO1245	-7662.5	113		1627	SO1311	-8652.5	113			SO1377	-9642.5	113
1561										1693			
1562	SO1247	-7677.5	243		1628	SO1313	-8667.5	243		1694	SO1379	-9657.5	243
1563	SO1248	-7692.5	113		1629	SO1314	-8682.5	113		1695	SO1380	-9672.5	113
1564	SO1249	-7707.5	243		1630	SO1315	-8697.5	243		1696	SO1381	-9687.5	243
1565	SO1250	-7722.5	113	Ì	1631	SO1316	-8712.5	113		1697	SO1382	-9702.5	113
1566	SO1251	-7737.5	243	İ	1632	SO1317	-8727.5	243		1698	SO1383	-9717.5	243
1567	SO1252	-7752.5	113	İ	1633	SO1318	-8742.5	113		1699	SO1384	-9732.5	113
				ł			-8757.5						
1568	SO1253	-7767.5	243	l	1634	SO1319		243		1700	SO1385	-9747.5	243
1569	SO1254	-7782.5	113		1635	SO1320	-8772.5	113		1701	SO1386	-9762.5	113
1570	SO1255	-7797.5	243		1636	SO1321	-8787.5	243		1702	SO1387	-9777.5	243
1571	SO1256	-7812.5	113		1637	SO1322	-8802.5	113		1703	SO1388	-9792.5	113
1572	SO1257	-7827.5	243	1	1638	SO1323	-8817.5	243		1704	SO1389	-9807.5	243
1573	SO1258	-7842.5	113	İ	1639	SO1324	-8832.5	113		1705	SO1390	-9822.5	113
1574	SO1259	-7857.5	243	ł		SO1325	-8847.5				SO1391	-9837.5	243
				l	1640			243		1706			
1575	SO1260	-7872.5	113		1641	SO1326	-8862.5	113		1707	SO1392	-9852.5	113
1576	SO1261	-7887.5	243		1642	SO1327	-8877.5	243		1708	SO1393	-9867.5	243
1577	SO1262	-7902.5	113		1643	SO1328	-8892.5	113		1709	SO1394	-9882.5	113

1710	SO1395	-9897.5	243		1765	SO1450	-10722.5	113		1820	SO1505	-11547.5	243
1711	SO1396	-9912.5	113		1766	SO1451	-10737.5	243		1821	SO1506	-11562.5	113
1712	SO1397	-9927.5	243		1767	SO1452	-10752.5	113		1822	SO1507	-11577.5	243
1713	SO1398	-9942.5	113		1768	SO1453	-10767.5	243		1823	SO1508	-11592.5	113
1714	SO1399	-9957.5	243		1769	SO1454	-10782.5	113		1824	SO1509	-11607.5	243
1715	SO1400	-9972.5	113		1770	SO1455	-10797.5	243		1825	SO1510	-11622.5	113
1716	SO1401	-9987.5	243		1771	SO1456	-10812.5	113		1826	SO1511	-11637.5	243
1717	SO1402	-10002.5	113		1772	SO1457	-10827.5	243		1827	SO1512	-11652.5	113
1718	SO1403	-10017.5	243		1773	SO1458	-10842.5	113		1828	SO1513	-11667.5	243
1719	SO1404	-10032.5	113		1774	SO1459	-10857.5	243		1829	SO1514	-11682.5	113
1720	SO1405	-10047.5	243	1 -	1775	SO1460	-10872.5	113	1	1830	SO1515	-11697.5	243
1721	SO1406	-10062.5	113	1 -	1776	SO1461	-10887.5	243	1	1831	SO1516	-11712.5	113
1722	SO1407	-10077.5	243	1	1777	SO1462	-10902.5	113		1832	SO1517	-11727.5	243
1723	SO1408	-10092.5	113	1	1778	SO1463	-10917.5	243		1833	SO1518	117425	113
1724	SO1409	-10107.5	243	1	1779	SO1464	-10932.5	113		1834	SO1519(\	1-11757.6	243
1725	SO1410	-10122.5	113	1	1780	SO1465	-10947.5	243		1835	SQ1520	117725	113
1726	SO1411	-10137.5	243	1	1781	SO1466	-10962.5	113		1836	\$01521	11787.5	243
1727	SO1411	-10157.5	113	+	1782	SO1467	-10902.5	243	+	1837	SQ1522\\	-11802.5	113
1728	SO1412	-10152.5	243	╁	1783	SO1467 SO1468	-10977.5	113	\vdash	1838	1/30/1523	-11817.5	243
1729	SO1413	-10107.5	113	1	1784	SO1469	-11007.5	243	1	1839	901524	-11832.5	113
1730	SO1415	-10197.5	243	+	1785	SO1470	-11022.5	113		1840	\$01525	-11847.5	243
1731	SO1416	-10137.5	113	+	1786	SO1470	-11022.5	243	$\langle \cdot \rangle$	1841	SO1526	-11862.5	113
1732	SO1417	-10212.5	243	1	1787	SO1471	-11057.5	113	(//	1842	SO1527	-11877.5	243
1733	SO1417	-10227.5	113	1	1788	SO1472	-11067 5	243	1	1843	SO1528	-11892.5	113
1734	SO1418	-10242.5	243	+	1789	SO1473	-11082.5	113	-//	1844	501020	-11907.5	243
1734	SO1419 SO1420	-10237.5	113	+	1790	SO1474	11097.5	243	\vdash	1845	SO1530\	11907.5	113
1736	SO1420	-10272.5	243	+	1791	SO1475 (-11M2\5	113	\vdash	1846	\\ \\$\\\$\\\$\\\\$\\\\$\\\\$\\\\$\\\\$\\\\$\\\\$	-11937.5	243
1737	SO1421	-10207.5	113	+	1792	SO1477	-11127.5	243	\vdash	1847	\$0,1532	-11957.5	113
1738	SO1423	-10302.5	243	+	1793	SO 478	-11142.5	113	0	1848	\$01833	-11967.5	243
1739	SO1424	-10317.5	113	1	1794	SO14X9	-11157.5	243	1	1849	\$O1534	-11982.5	113
1740	SO1425	-10332.5	243	1	1795	\$01480	-11172.5	113	1	1850	SO1535	-11997.5	243
1741	SO1426	-10347.5	113		1796	\$01481	-11187.5	243	$\vdash \lor$	1851	SO1536	-12012.5	113
1742	SO1427	-10377.5	243	nς	1793	SO1482	-1/202.5	113		1852	SHIELDING	-12055.0	258
1743	SO1428	-10392.5	113	H_{J}	1798	SO1483	-11217.5	243	\simeq	1853	COM1 OUT	-12105.0	258
1744	SO1429	-10407.5	243	H/t	1799	SO1484	>1√217.5 >1√232.5√	138	1	1854	COM1_OUT	-12155.0	258
1745	SO1430	-10422.5	1 EVV	111	1800	SO1485	-11247.5	243	1	1855	SHIELDING	-12205.0	258
1746	SO1431	-1 0 437/5	243	(-)	1801	801486	-11262.5	113	1	1856	F_CtrlR	-12403.0	278
1747	SO1431	<10462.5	1113	\circ	1802	\$01487	-11277.5	243	1	1857	OEVR	-12303.0	238
1748	SO1432	10467.5	243	1	1803	\$01488	-11292.5	113	1	1858	SYNC1R	-12403.0	198
1749	SQ1434	10482.5	113	╁	1804	SO1489	-11307.5	243	\vdash	1859	SYNC2R	-12303.0	158
1750	\$Q1435\\	10497.5	243	7	1805	\\SO1490	-11322.5	113	\vdash	1860	UDR	-12403.0	118
1751	SO1436	-10512.5	113	$\top \gamma$	1806	SO1490	-11322.5	243	+	1861	CKVR	-12303.0	78
1751	\\80143\\	-10512.5	243		1807	SO1491	-11357.5	113	\vdash	1862	STV2R	-12403.0	38
1753	SO1438	-10527.5	113	1/	1808	SO1492	-11367.5	243	+	1863	STV1R	-12303.0	-2
1754	SO1438	-10542.5	243	1	1809	SO1493	-11382.5	113	\vdash	1864	F CtrlR	-12403.0	-42
1755	SO1440	-10577.5	113	╁	1810	SO1494	-11302.5	243	\vdash	1865	STBNR	-12303.0	-82
1756	SO1440	-10572.5	243	╁	1811	SO1495	-11412.5	113	\vdash	1000	ALIGNMENT_M	-12131.5	115.5
1757	SO1441	-10602.5	113	╁	1812	SO1490 SO1497	-11412.5	243	\vdash	ł	ARK_L	12101.0	1 13.3
1758	SO1442 SO1443	-10602.5	243	╁	1813	SO1497 SO1498	-11427.5	113	\vdash	—	ALIGNMENT M	12131.5	115.5
1759	SO1443	-10617.5	113	╁	1814	SO1498	-11442.5	243	\vdash	1	ARK R	12101.0	113.3
1760	SO1444	-10632.5	243	₩	1815	SO1500	-11457.5	113	H		VIVI7_I/		
1760	SO1445	-10647.5	113	₩	1816	SO1500	-11472.5	243	 				+
1761	SO1447	-10677.5	243	╁	1817	SO1501	-11502.5	113	╁				
		10077.5		┵					\vdash	 		+	-
1763	SO1448	-10602.5	112		1212	SO1503	-115175	2/12		Į.	l i	I	
1763 1764	SO1448 SO1449	-10692.5 -10707.5	113 243	-	1818 1819	SO1503 SO1504	-11517.5 -11532.5	243 113	-				



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
0.1	New Issue.	2010/04/12
0.2	1.Modify SEL[0:1] pin define(p11) 2.Update Gamma telle(p18,p19,p20)	2010/06/01
0.3	1.Modify application power circuit(p7) 2.Modify PINCTRL Pin Description(p12) 3.Add R2/R3 register(p16) 4.Modify gamma table(p19,2(,21)	2010/08/30
0.4	Modify Dual gate diagram(pt)	2011/03/24
0.5	1.Modify TL input timing(p23-p27) 2.Modify GRB pin-definition and GRB delay time spec(p10,33)	2011/05/27
3,0 \\	Modify external terminal resistor for LVDS IF(p9)	2012/08/23
1.0	Modify witing resistance (p13) Modify chip outline dimensions (p40)	2013/08/28
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