

a-Si TFT LCD Single Chip Driver 320RGB x 480 Resolution and 16.7M-color



5.2.5. Read Display Status (09h)

09h					RD	DST (Rea	ıd Display	Status)					
	D/CX	RDX	WRX	D [23:8]	D7	D6	D5	D4	D3	D2	D1	D0	HEX
Command	0	1	1	XX	0	0	0	0	1	0	0	1	09h
1 st Parameter	1	1	1	XX	Х	Х	Х	Х	Х	Х	Х	Х	xx
2 nd Parameter	1	1	1	XX		D [31:24]						xx	
3 rd Parameter	1	1	1	XX	D [23:16]							xx	
4 th Parameter	1	1	1	XX	D [23:8]							XX	
5 th Parameter	1	1	1	XX	D [7:0]							XX	

This command indicates the current status of the display as described in the table below:

	Bit	Description	Value	Status		
	D01	Decetes veltere etetue	0	Booster OFF		
	D31	Booster voltage status	1	Booster ON		
	Doo	Daw adduces and an	0	Top to Bottom (When MADCTL D7 = 0)		
	D30	Row address order	1	Bottom to Top (When MADCTL D7 = 1)		
	D00	Caluman adduses and an	0	Left to Right (When MADCTL D6 = 0)		
	D29	Column address order	1	Right to Left (When MADCTL D6 = 1)		
	D28	Daw/salumn avahanga	0	Normal Mode (When MADCTL D5 = 0)		
	D28	Row/column exchange	1	Reverse Mode (When MADCTL D5 = 1)		
	D07	Moutical valuab	0	LCD Refresh Top to Bottom (When MADCTL D4 = 0)		
	D27	Vertical refresh	1	LCD Refresh Bottom to Top (When MADCTL D4 =		
	D00	DOD/DOD and a	0	RGB (When MADCTL D3 = 0)		
	D26	RGB/BGR order	1	BGR (When MADCTL D3 = 1)		
	D05	III. 2 and all of such a sile of	0	LCD Refresh Left to Right (When MADCTL D2 = 0)		
	D25	Horizontal refresh order	1	LCD Refresh Right to Left (When MADCTL D2 =		
Description	D22		101	16-bit/pixel		
	D21	Interface color pixel format definition	110	18-bit/pixel		
	D20	delilillion	111	24-bit/pixel		
	D10	Idla mada ON/OFF	0	Idle Mode OFF		
	D19	Idle mode ON/OFF	1	Idle Mode ON		
	D10	Dominia mada ON/OFF	0	Partial Mode OFF		
	D18	Partial mode ON/OFF	1	Partial Mode ON		
	D17	Cloop IN/OLIT	0	Sleep IN Mode		
	D17	Sleep IN/OUT	1	Sleep OUT Mode		
	D10	Display named made ON/OFF	0	Display Normal Mode OFF		
	D16	Display normal mode ON/OFF	1	Display Normal Mode ON		
	D15	Vertical carelling status	0	Vertical Scroll OFF		
	D15	Vertical scrolling status	1	Vertical Scroll ON		
	D10	Improvedent etatus	0	Inversion OFF		
	D13	Inversion status	1	Inversion ON		
	D10	Diaplay ON/OFF	0	Display is OFF		
	D10	Display ON/OFF	1	Display is ON		
	500	Tables - Wast III ON OFF	0	Tearing Effect Line OFF		
	D9	Tearing effect line ON/OFF	1	Tearing Effect ON		

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		D [8:6]	Gamma curve selection	000		G	C0		
		D5	D5 Tearing effect line mode			Mode 1, V-Blanking only			
		D3	rearing effect fille fillode	1	Mode	Mode 2, both H-Blanking and V-Blanking			
	Note: T		ates the current status of the line w	hen this c	ommand is sei	nt.			
Restriction									
			St	atus		Availability			
			Normal Mode On, Id		-	Yes Yes			
Register			· · · · · · · · · · · · · · · · · · ·	ormal Mode On, Idle Mode On, Sleep Out			_		
Availability			Partial Mode On, Idl			Yes Yes	-		
				Partial Mode On, Idle Mode On, Sleep Out Sleep In			-		
				<u>'</u>		Yes			
			Statu		Default Va				
			Power On S		32'h006100				
Default			SW Re		32'h006100				
Flow Chart			RDDST (09h) 1st Parameter: Dummy Read 2nd Parameter: Send D [31:24] d 3rd Parameter: Send D [23:16] di 4th Parameter: Send D [15:8] dis 5th Parameter: Send D [7:0] disp	isplay stat splay status	us		Legend Command Parameter Display Action Mode Sequential transfer		

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