Wildcat DISCO

MB1407

Table of contents

Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.

Notes to generate the board layout.
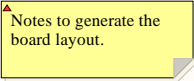
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U_4inches_DSI_LCD
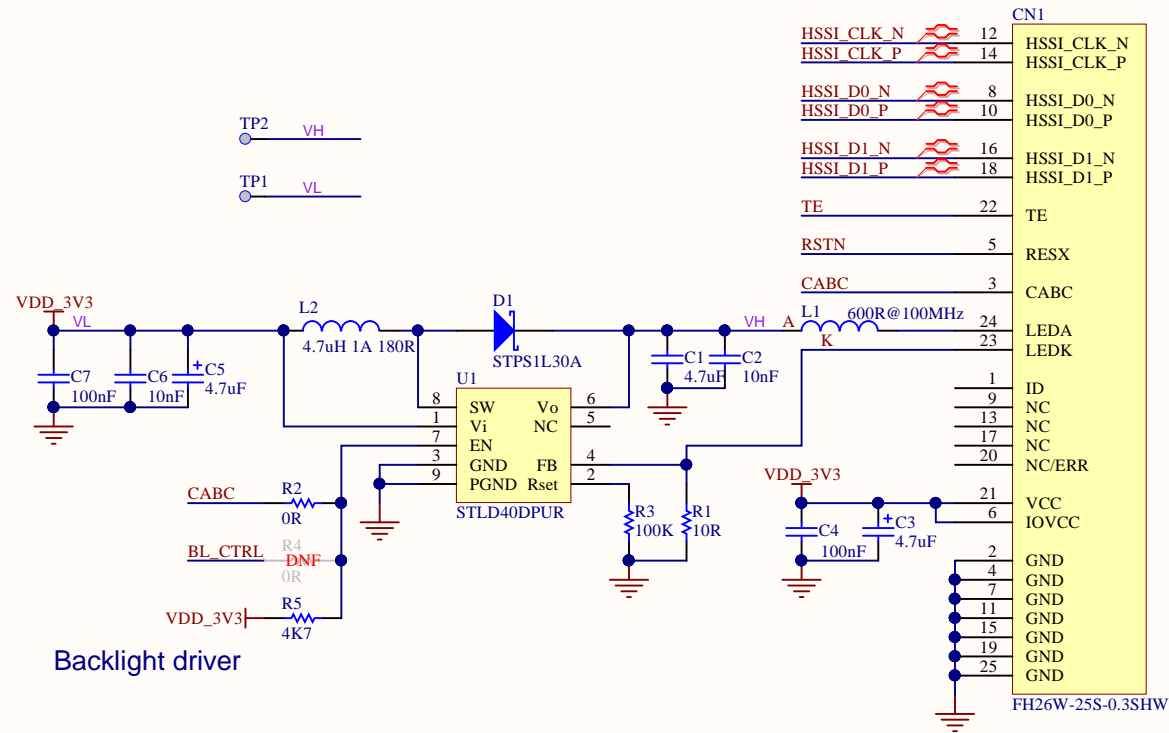4inches_DSI_LCD.SchDoc

Title: **MB1407**	
Project: **Wildcat DISCO**	
Variant: LCD	
Revision: C-01	Reference: MB1407
Size: A4	Date: 25-MAY-2018	Sheet: 1 of 2

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LCD FFC connector

Mother board FFC connector

FFC

HW1

FFC 20 pins, pitch 1.0mm

CN1

Signal	Pin	Name
HSSI_CLK_N	12	HSSI_CLK_N
HSSI_CLK_P	14	HSSI_CLK_P
HSSI_D0_N	8	HSSI_D0_N
HSSI_D0_P	10	HSSI_D0_P
HSSI_D1_N	16	HSSI_D1_N
HSSI_D1_P	18	HSSI_D1_P
TE	22	TE
RSTN	5	RESX
CABC	3	CABC
VH A	24	LEDA
K	23	LEDK
	1	ID
	9	NC
	13	NC
	17	NC
	20	NC/ERR
	21	VCC
	6	IOVCC
	2	GND
	4	GND
	7	GND
	11	GND
	15	GND
	19	GND
	25	GND

L1 600R@100MHz

VDD_3V3

C4 100nF   +C3 4.7uF

FH26W-25S-0.3SHW

CN2

2-84953-0

Signal	Pin
	1
HSSI_D1_N	2
HSSI_D1_P	3
	4
HSSI_CLK_N	5
HSSI_CLK_P	6
	7
HSSI_D0_N	8
HSSI_D0_P	9
	10
I2C_SCL	11
I2C_SDA	12
	13
	14
	15
INT	16
TE	17
BL_CTRL	18
RSTN	19
	20

VDD_3V3
C8 100nF

Backlight driver

TP2 VH
TP1 VL

VDD_3V3 VL

C7 100nF   C6 10nF   +C5 4.7uF

L2 4.7uH 1A 180R

D1 STPS1L30A

VH

C1 4.7uF   C2 10nF

U1 STLD40DPUR

Pin			Pin
8	SW	Vo	6
1	Vi	NC	5
7	EN		
3	GND	FB	4
9	PGND	Rset	2

CABC R2 0R
BL_CTRL R4 DNF 0R
VDD_3V3 R5 4K7

R3 100K   R1 10R

Self-Capacitive Touch Panel connector

VDD_3V3

R7 DNF 1K5   R8 DNF 1K5   R6 4K7

I2C_SCL
I2C_SDA

INT
RSTN

VDD_3V3

C9 100nF

CN3

Name	Pin
SCL	4
SDA	3
INT	5
RESET	2
VDD	6
GND	1
MT1	MT1
MT2	MT2

CTP controller I2C Address: 0x70

FH19C-6S-05SH
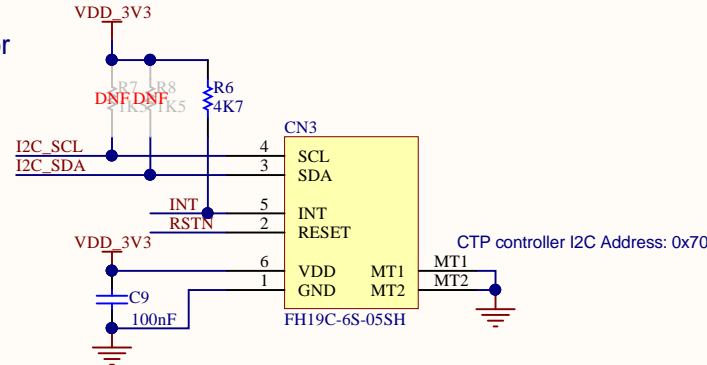
FRIDA LCD module 480x800 pixels

HW2

FRD397B2509V2

HW22

BOARD REF

MB1407A-01 Ayywwxxxxx

HW20

BOARD CPN

CPN

Title: **4" DSI LCD**
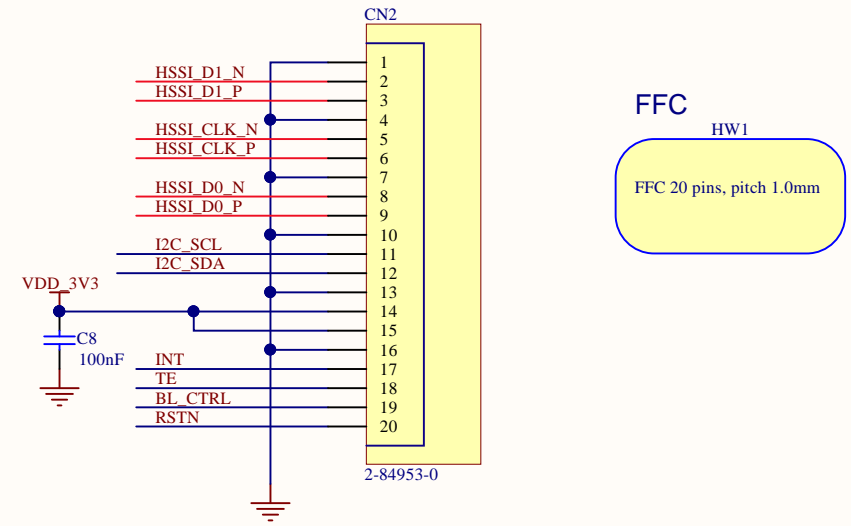Project: **Wildcat DISCO**
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