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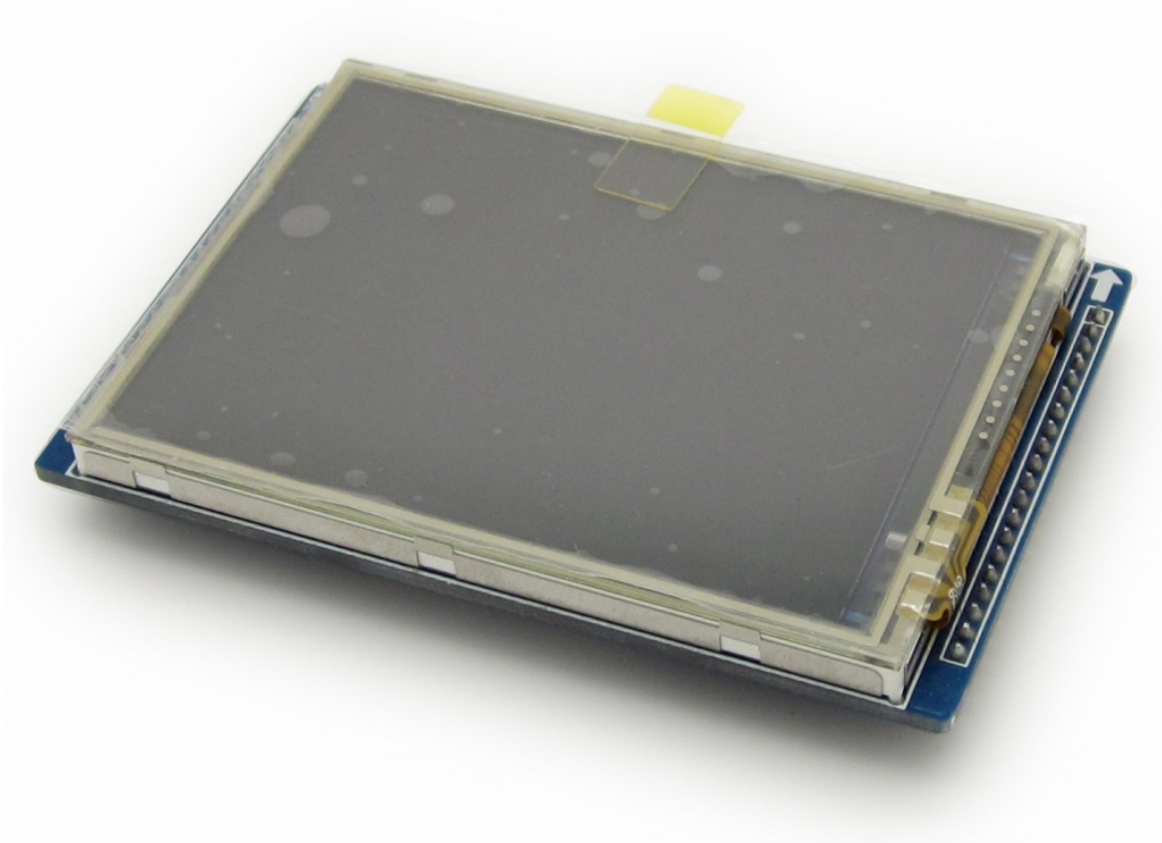
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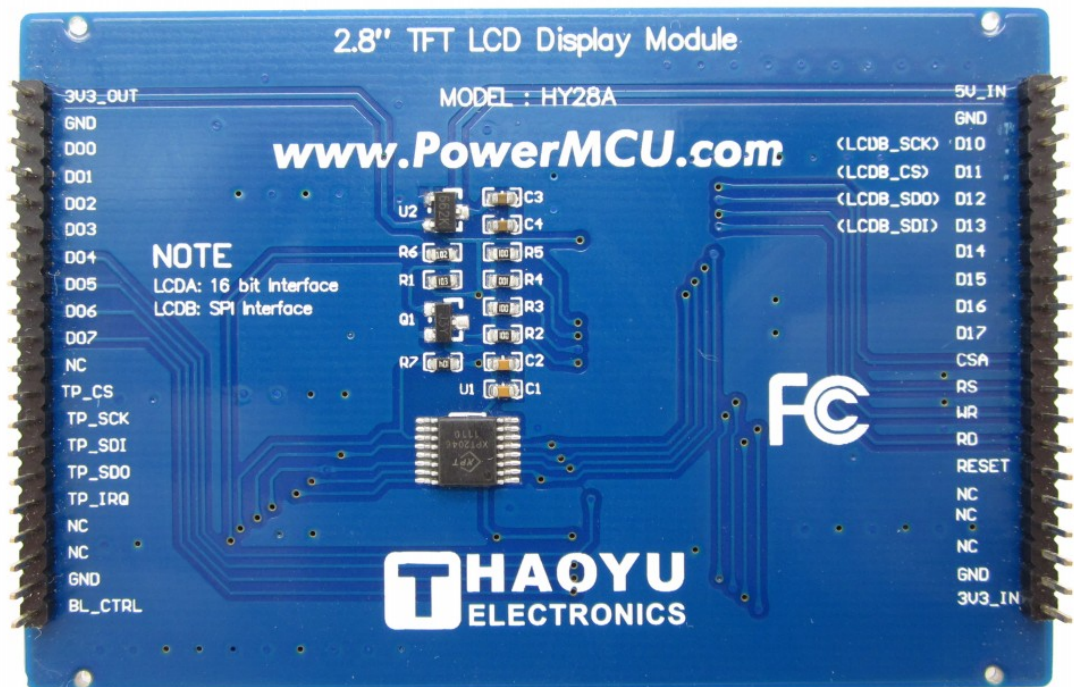
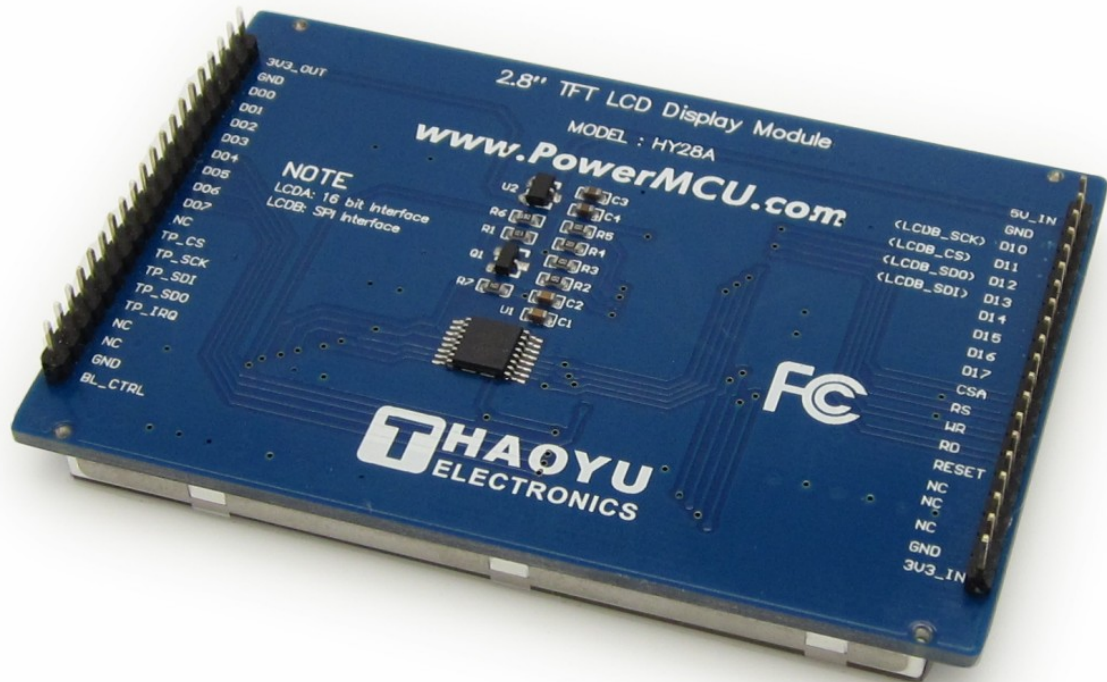
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Description

LCD Controller	SPFD5408B
Touch Screen Controller	ADS7843 or XPT2046
LCD Type	TFT
LCD Interface	16-bit parallel
Touch Screen Interface	SPI
Backlight	LED
Colors	65536
Resolution	320*240
Pin pitch	2.00 mm





## HY28A-LCDA Pin Description

PIN NO	SYMBOL	DESCRIPTION	FUNCTION
1	5V_IN	5V power supply	When powered from 5V supply, Pin 20 & Pin 21 ( 3V3_IN & 3V3_OUT ) provide 3.3V output.
2	GND	Ground	Power Ground
3	D10	Data bus	D10
4	D11	Data bus	D11
5	D12	Data bus	D12
6	D13	Data bus	D13
7	D14	Data bus	D14
8	D15	Data bus	D15
9	D16	Data bus	NC
10	D17	Data bus	NC
11	CSA	LCD chip select	Low active
12	RS	Instruction/Data register selection	RS = 1 : Instruction Register RS = 0 : Data Register
13	WR	Write	WR = 0, RD = 1
14	RD	Read	WR = 1, RD = 0
15	RESET	Reset the controller chip	Low active
16	NC	Not connect	Not connect
17	NC	Not connect	Not connect
18	NC	Not connect	Not connect
19	GND	Ground	Power Ground
20	3V3_IN	3.3V power supply	3V3_IN = 3V3OUT, When powered from 3.3V supply, 5V_IN keep NC.
21	3V3_OUT	3.3V power supply	3V3_IN = 3V3OUT, When powered from 3.3V supply, 5V_IN keep NC.
22	GND	Ground	Power Ground
23	D0	Data bus	D0
24	D1	Data bus	D1
25	D2	Data bus	D2
26	D3	Data bus	D3
27	D4	Data bus	D4
28	D5	Data bus	D5
29	D6	Data bus	D6
30	D7	Data bus	D7
31	NC	Not connect	Not connect
32	TP_CS	Touch screen chip select	Low active
33	TP_SCK	Touch screen SPI clock	connects to SPI SCK
34	TP_SDI	Touch screen data input	connects to SPI MOSI
35	TP_SDO	Touch screen data output	connects to SPI MISO
36	TP_IRQ	Touch screen interrupt	Low level while the touch screen detects pressing
37	NC	Not connect	Not connect
38	NC	Not connect	Not connect
39	GND	Ground	Power Ground
40	BL_CTRL	Backlight brightness adjustment	Control the backlight brightness via PWM

## Document

[HY28A PCB.lib](#)

[HY28A dimension.pdf](#)

[HY28A LCD module Schematic.pdf](#)

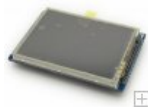
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