



OZDISAN ELECTRONIC A.S.

4.3"- 5" FT800 TFT Driver Board V1

OZD-FT800-CRV000-V1 (with voice output)

Doc. Version: 1.1

19.09.2017



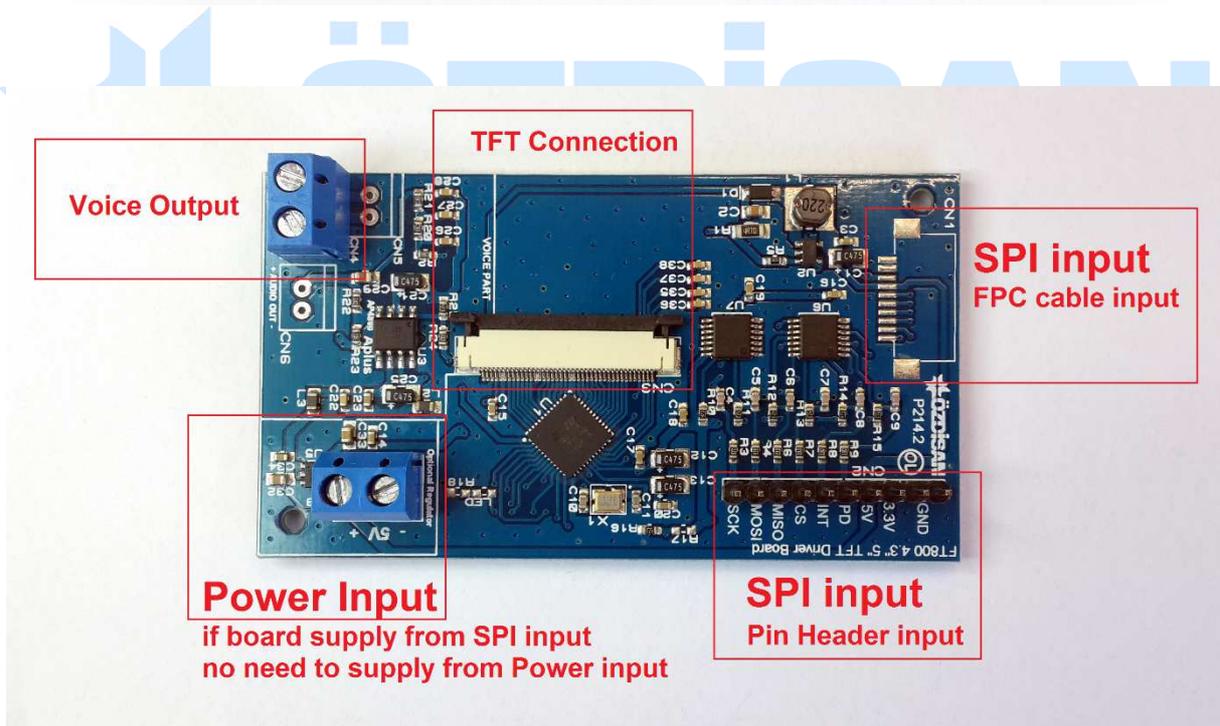
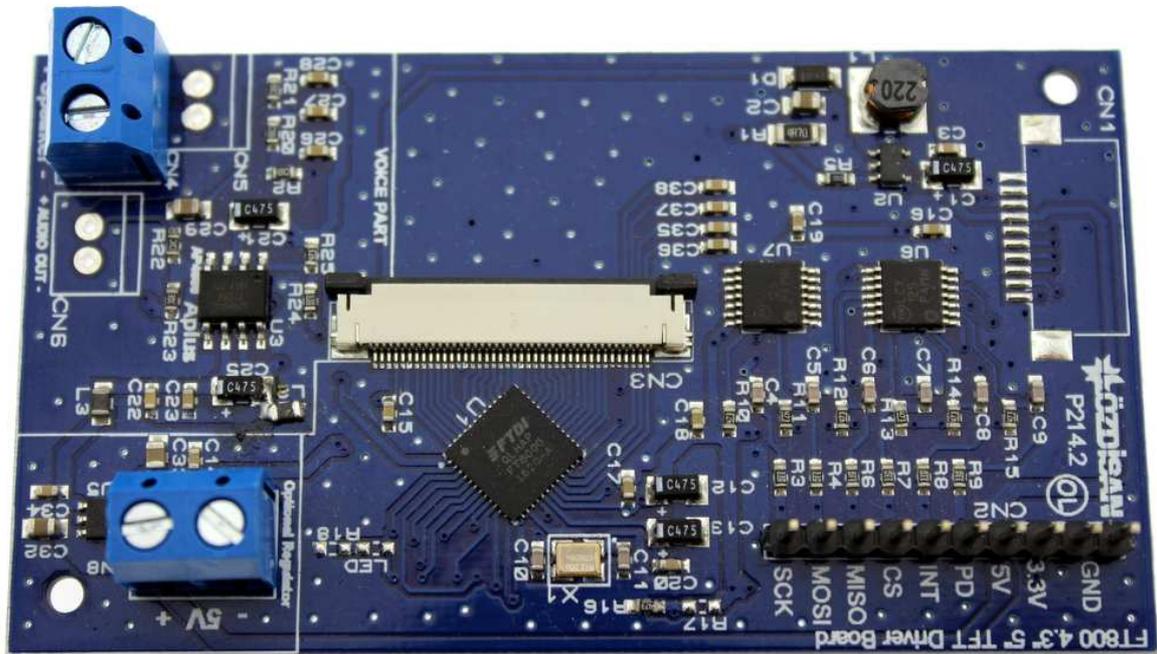
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www.ozdisan.com

4.3"- 5" FT800 TFT Driver Board V1

Product Pictures



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Main Parameters

Board supply voltage	5V
PIN input Voltage	2.7V ~ 5.5V
Working current Sleep current	150 mA <1mA
Working temperature scope	-20°C ~ +60°C
Storage temperature scope	-40°C ~ +70°C

Controller Information

Built-in FT800

The FT800 is an easy to use graphic controller targeted for embedded applications to generate high-quality Human Machine Interfaces (HMIs). includes graphic controller, audio processing, and resistive touch controller.

Pin description for CN2: SPI input from User's MCU (FPC cable output available CN1)

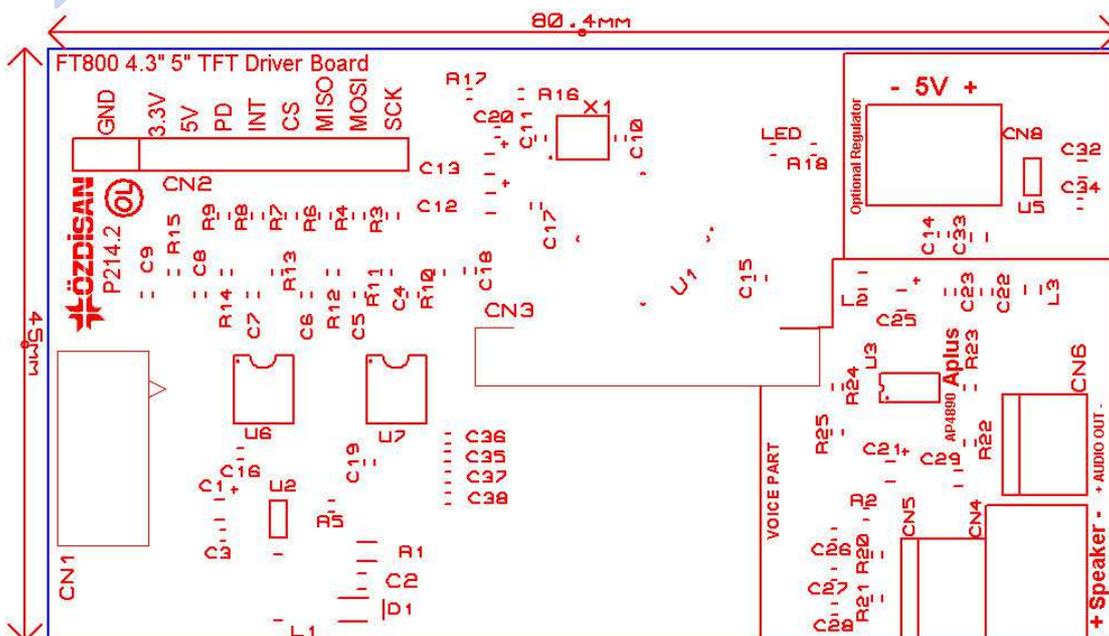
Pin No.	Symbol	Function Description
10	GND	GND
9	GND	GND
8	3.3V	Voltage output
7	5V	Board Supply input
6	PD	Board Enable, activate FT800, input, 3.3V-5V
5	INT	Chip Interrupt output, 3.3V
4	CS	SPI chip select, input, active low
3	MISO	SPI Master In, Slave out
2	MOSI	SPI Master Out Slave in
1	SCK	SPI Clock input

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Pin Description for CN3: Pin Connections to TFT Panel

Pin No.	Symbol	Function Description
1	LED-	LED Cathode
2	LED+	LED Anode
3	GND	Power Ground
4	VDD	Power Voltage(3.3V)
5-12	R0-R7	Red Data 0-7
13-20	G0-G7	Green Data 0-7
21-28	B0-B7	Blue Data 0-7
29	GND	Power Ground
30	DCLK	Pixel clock
31	DISP	Display on/off
32	HSYNC	Horizontal sync signal
33	VSYNC	Vertical sync signal
34	DE	Data enable
35	NC	No connection
36	GND	Power Ground
37	X_R	Right electrode
38	Y_B	Bottom electrode
39	X_L	Left electrode
40	Y_T	Top electrode

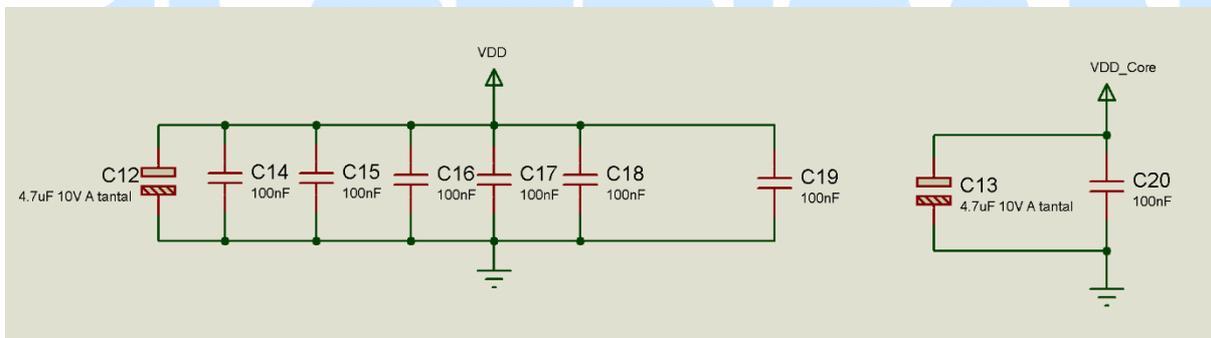
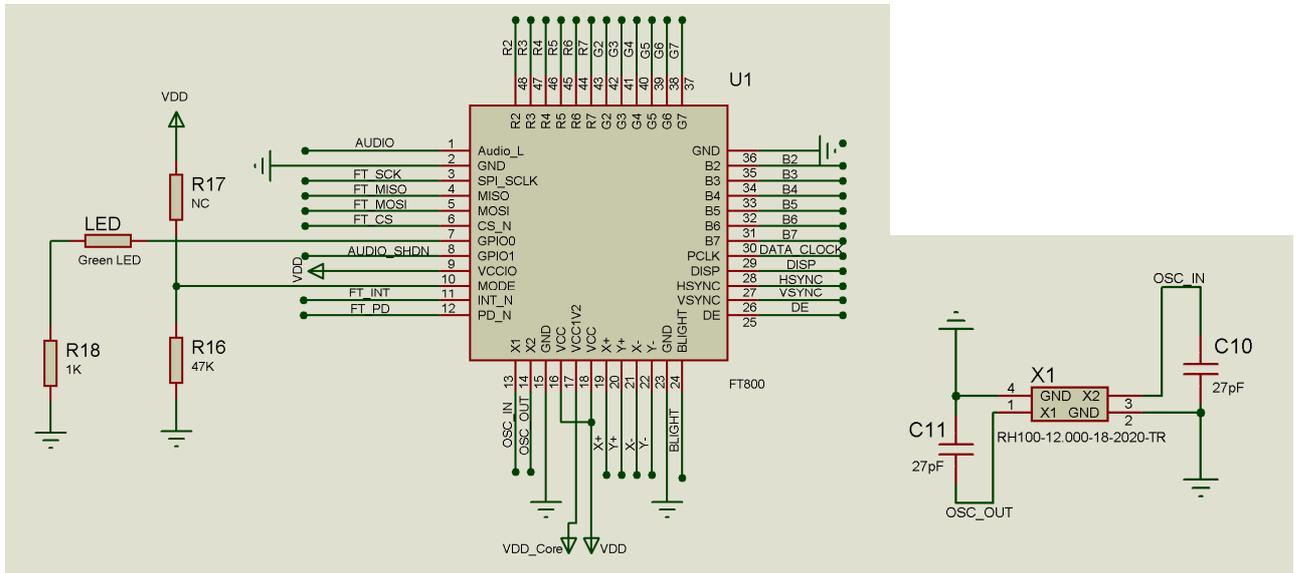
Outline Dimensions



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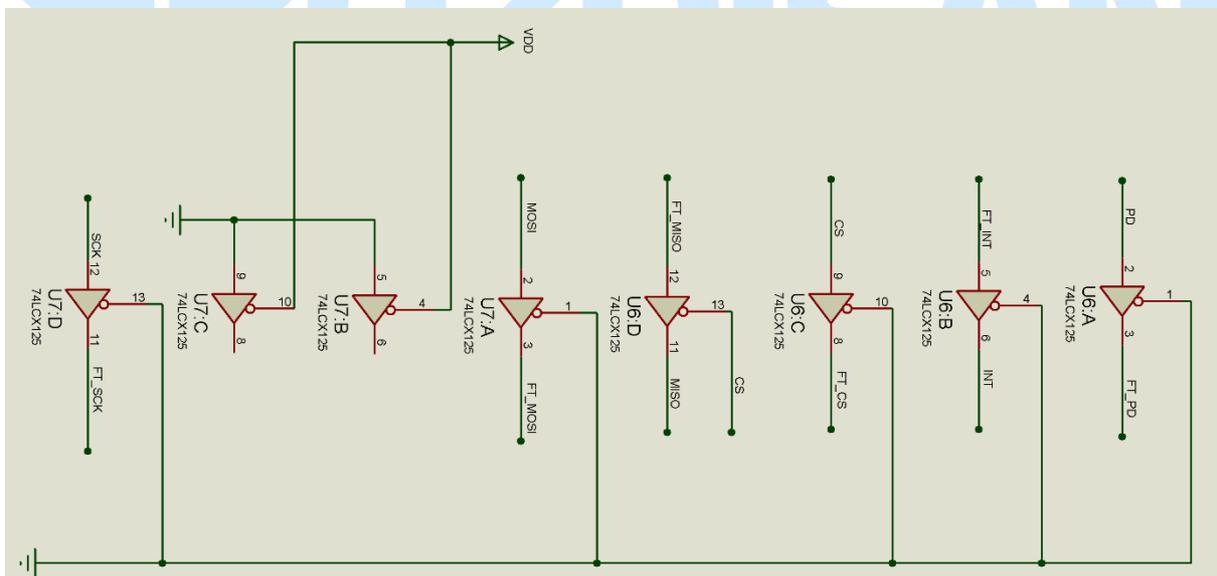
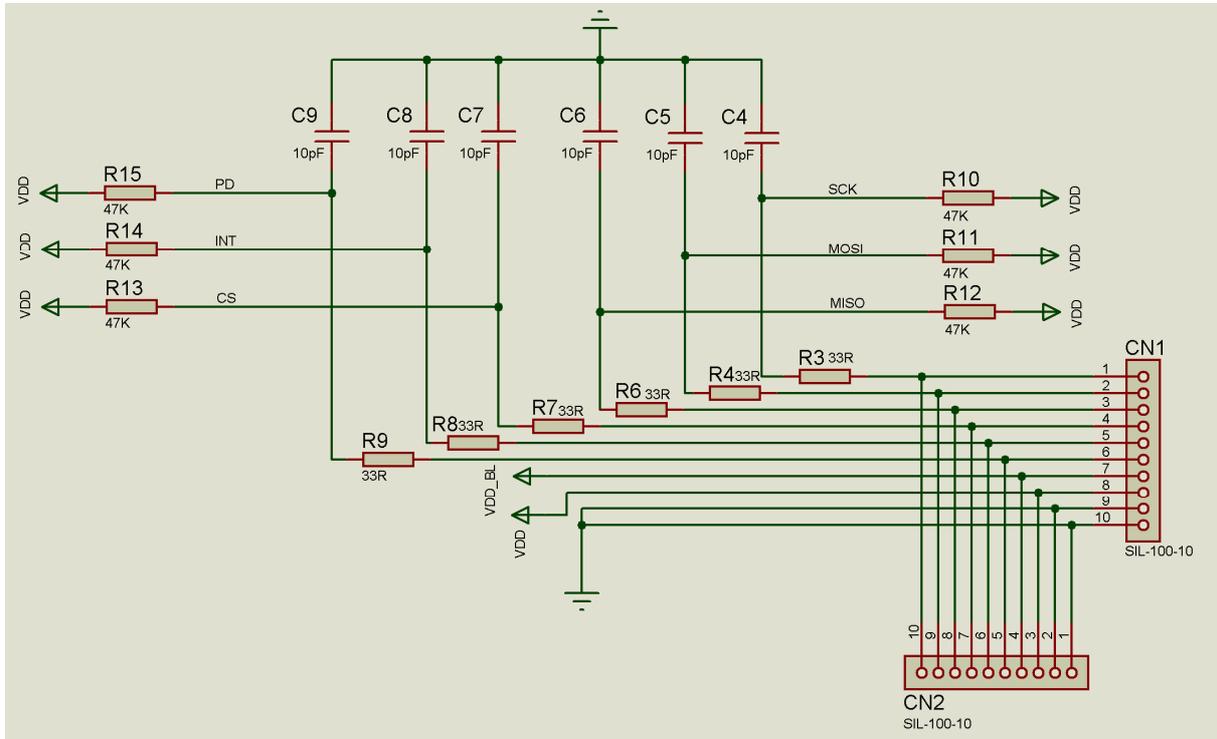
Schematics

FT800



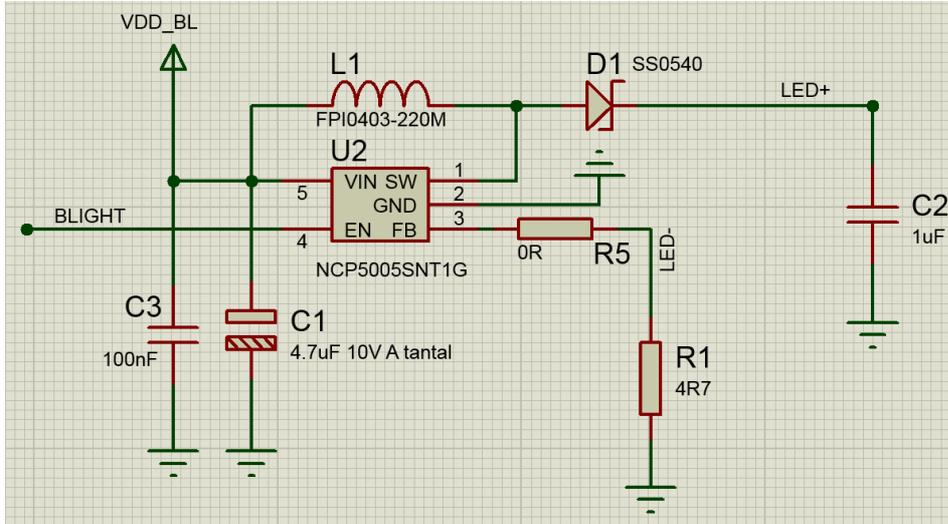
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Input Buffer

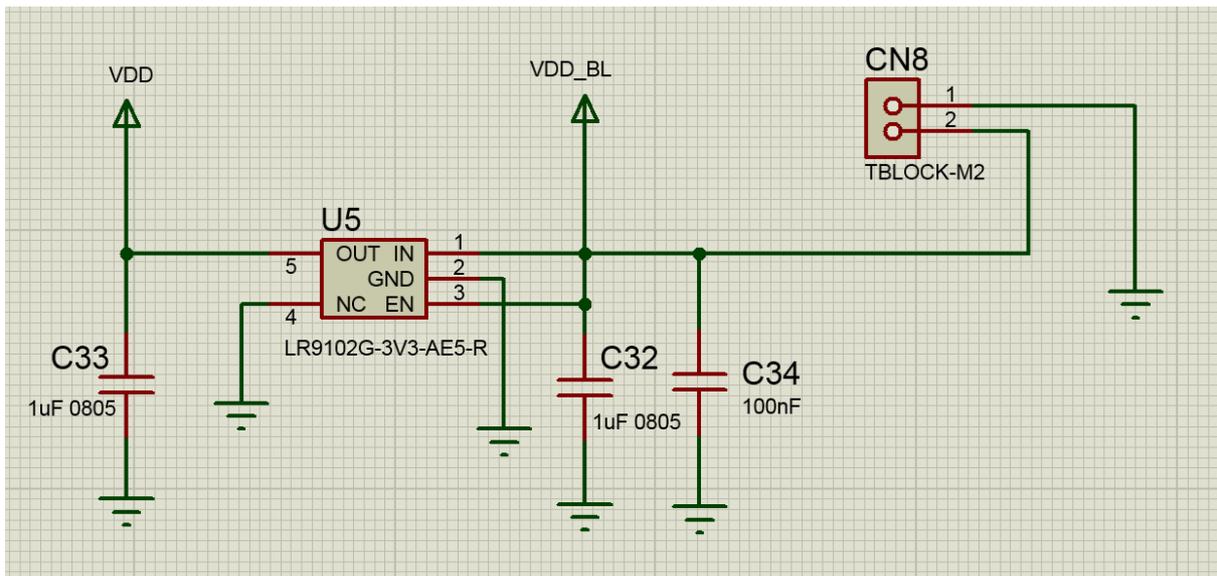


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Backlight

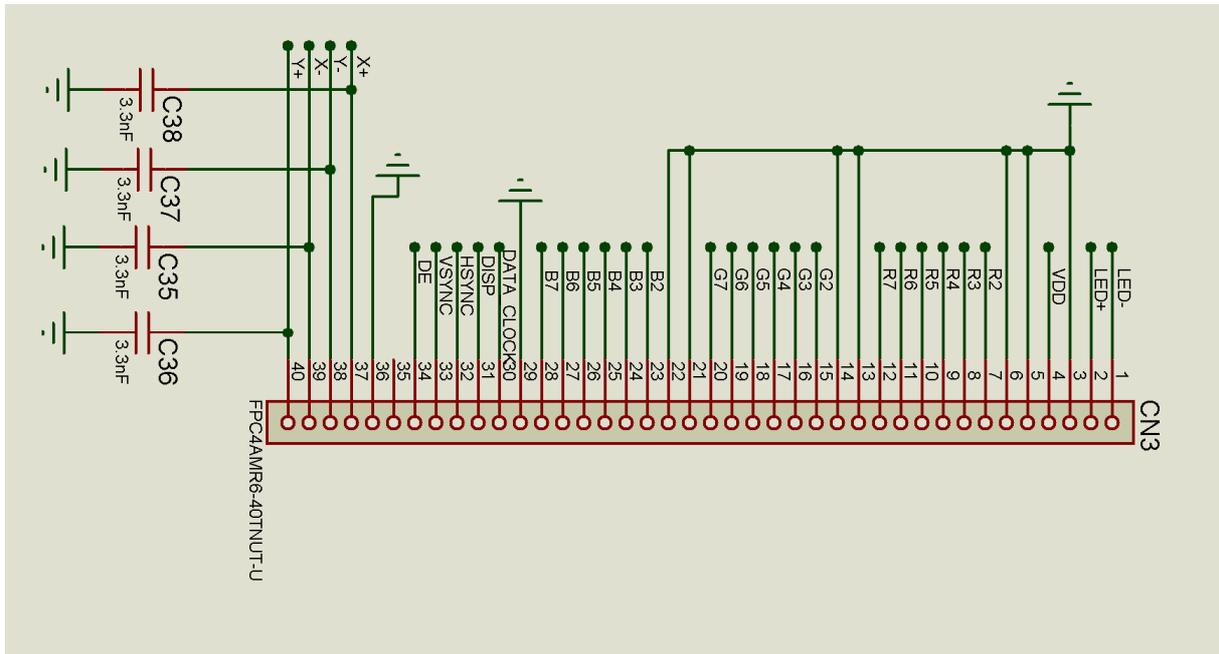


Voltage regulator

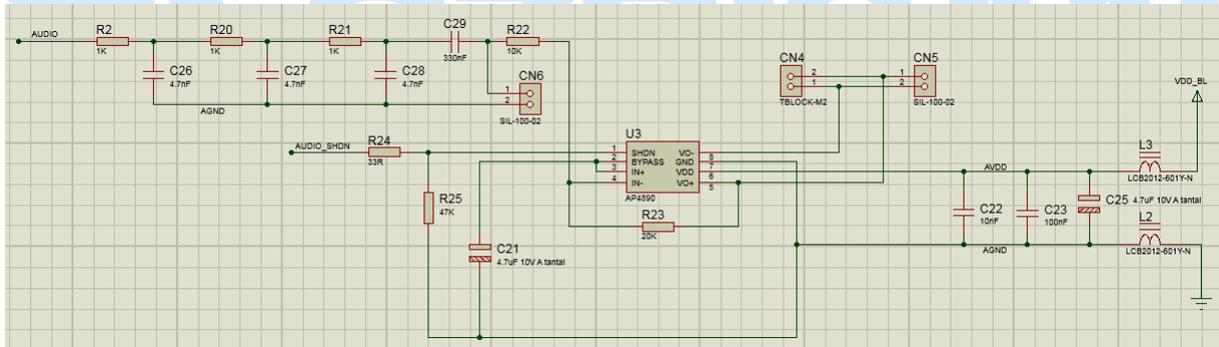


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TFT connection



Voice output



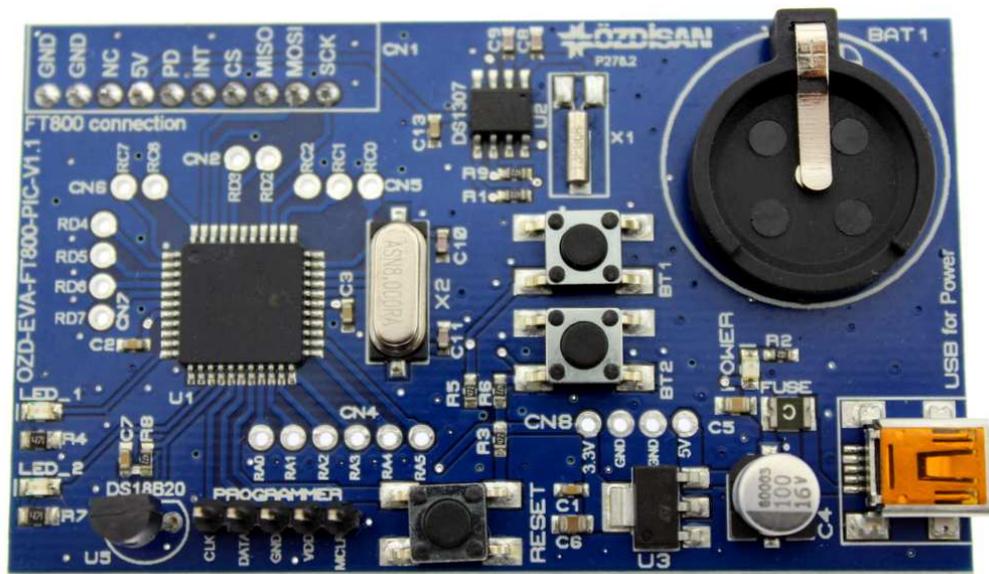
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PIC demo board

OZD-EVA-FT800-PIC-V1.1 is a PIC18F46K20 based FT800 demo board. It is including DS1307 (Real time clock), DS12B20 (temperature sensor), 2 button inputs and 2 Leds output.

Product Link:

<https://www.ozdisan.com/tools-supplies-assistant-equipments/evaluation-and-demo-boards-kits/evaluation-boards/OZD-EVA-FT800-PIC-V1-1>

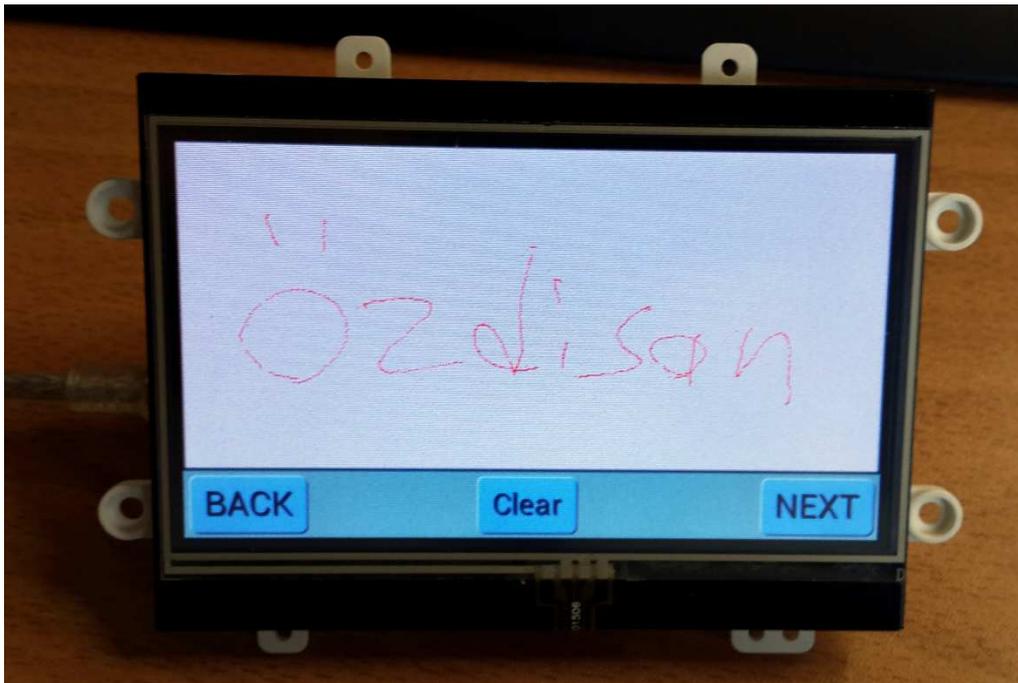


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OZD_EVA-FT800-PIC-V1 Demo_1 software





Software examples can be downloaded here.

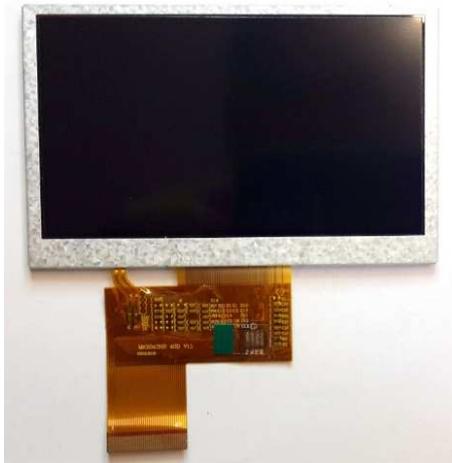
http://www.ftdichip.com/Support/SoftwareExamples/FT800_Projects.htm

<https://github.com/sabrilogic?tab=repositories>

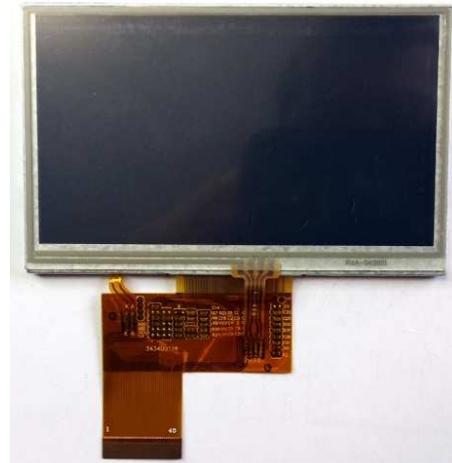
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TFT Panels which can be used with this board.

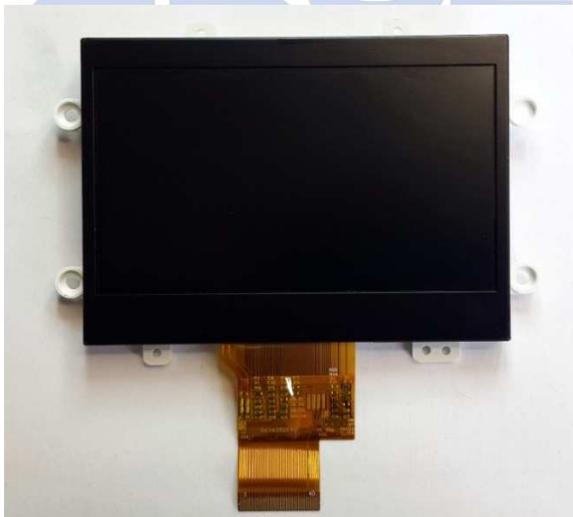
4.3" without touch



4.3" with resistive touch



4.3" with Bracket, without touch

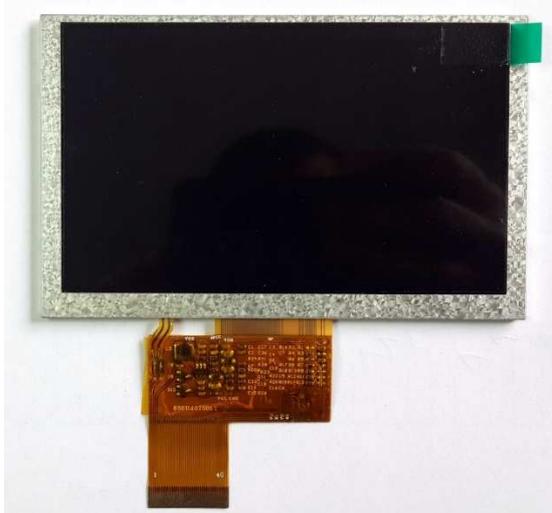


4.3" with Bracket, with resistive touch

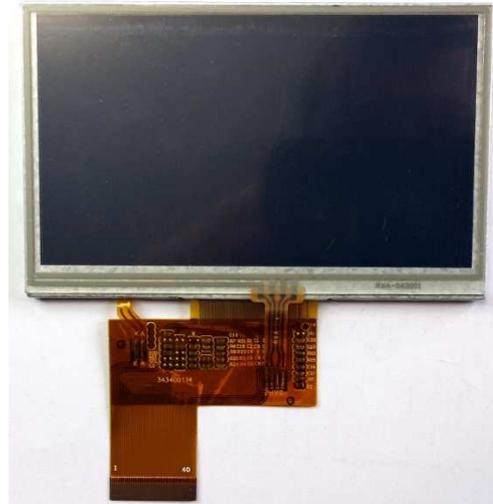


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5" without touch



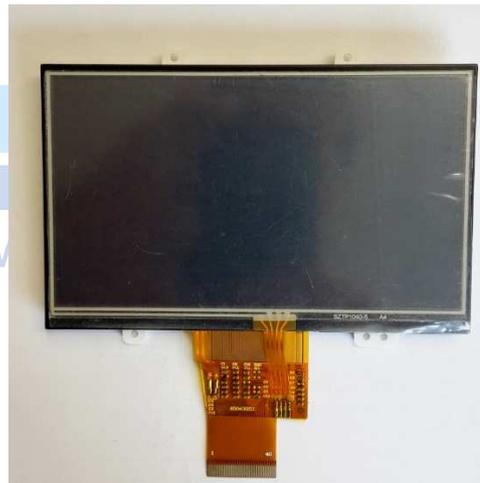
5" with resistive touch



5" with Bracket, without touch



5" with Bracket, with resistive touch



All of the TFT options can be seen here.

<http://www.ozdisan.com/Category/Index/459>