

Hardware

ATmega328 is the main brain which can parse the stream from UART to show the data on the TFT-LCD.

The UART is connected to the host PC or ODRROID via CP2104 which converts the UART to USB interface.

The CP2104 also has 3.45V voltage regulator to supply the power for LCD too.

With the on-chip regulator we could simplify the board design.

Documentations

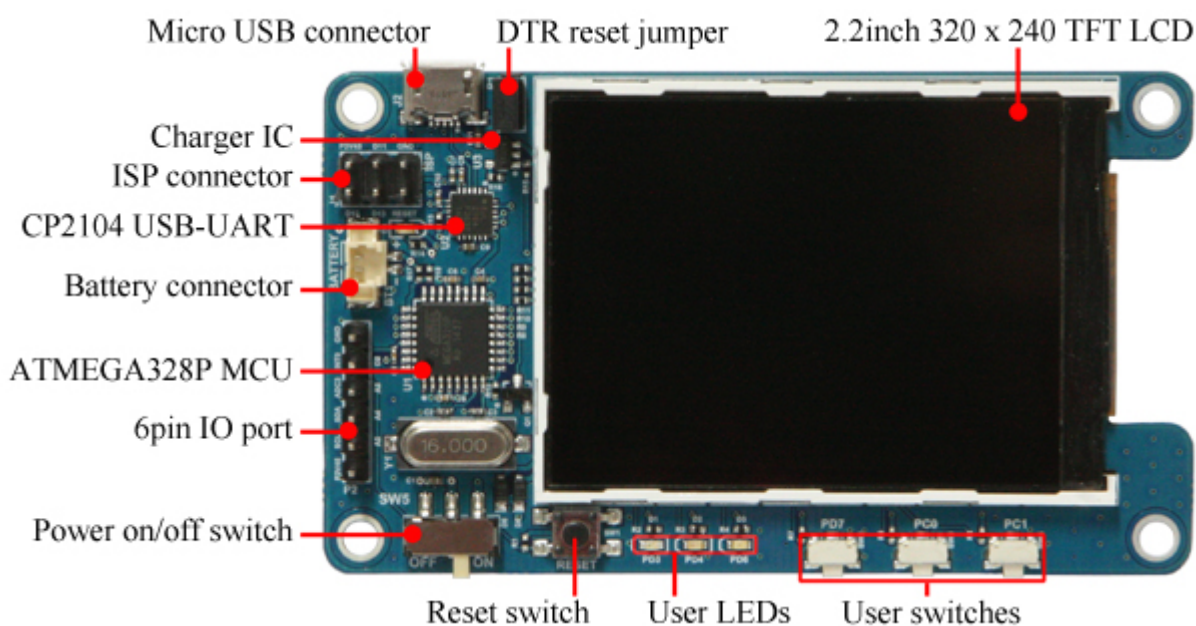
Full schematics

- [ODROID-SHOW](#)
- [ODROID-SHOW2](#)

Data Sheet

- [ATmega328P](#)
- [TM022HDH26 2.2" LCD](#)
- [TFT LCD Driver ILI9340](#)

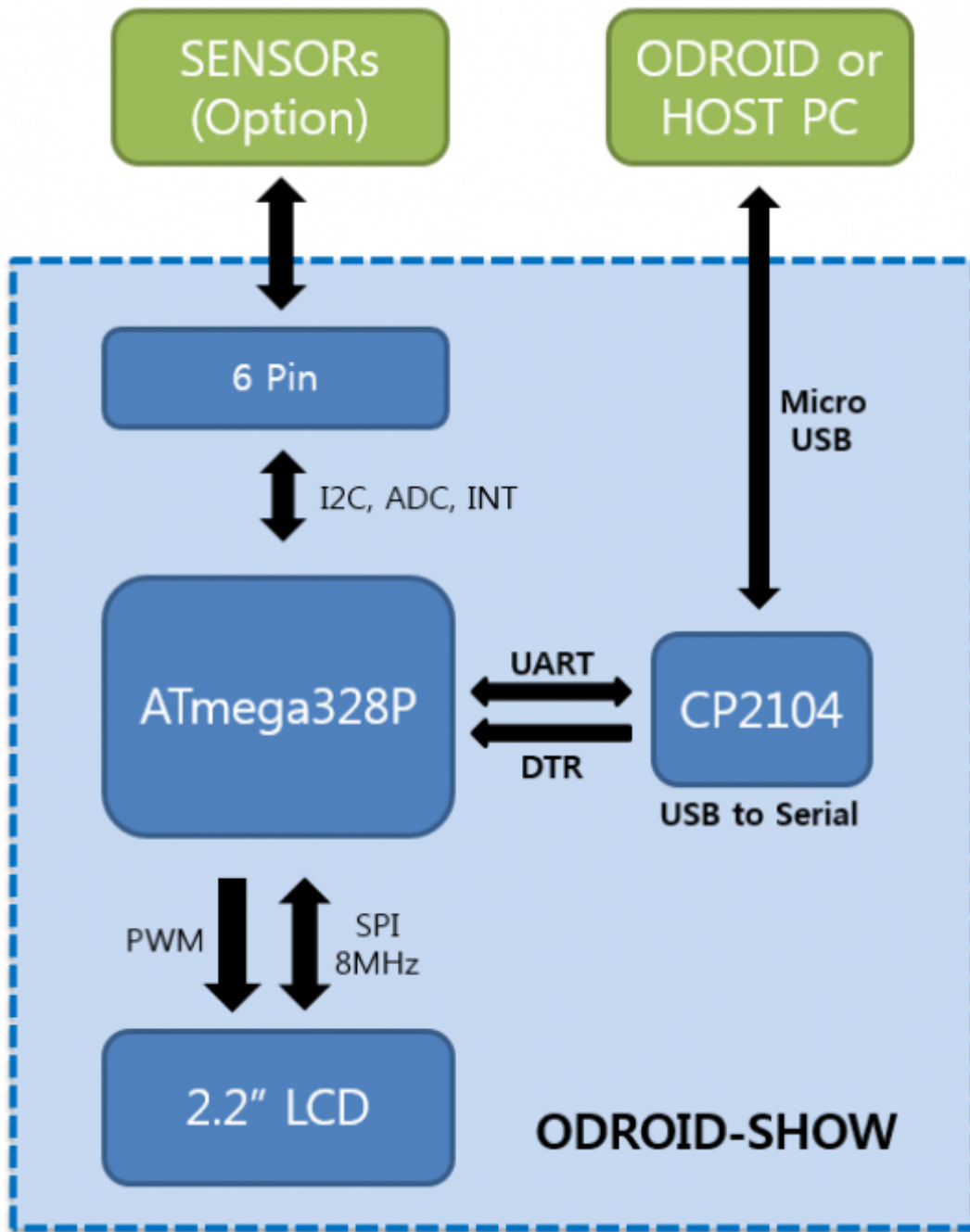
Specification

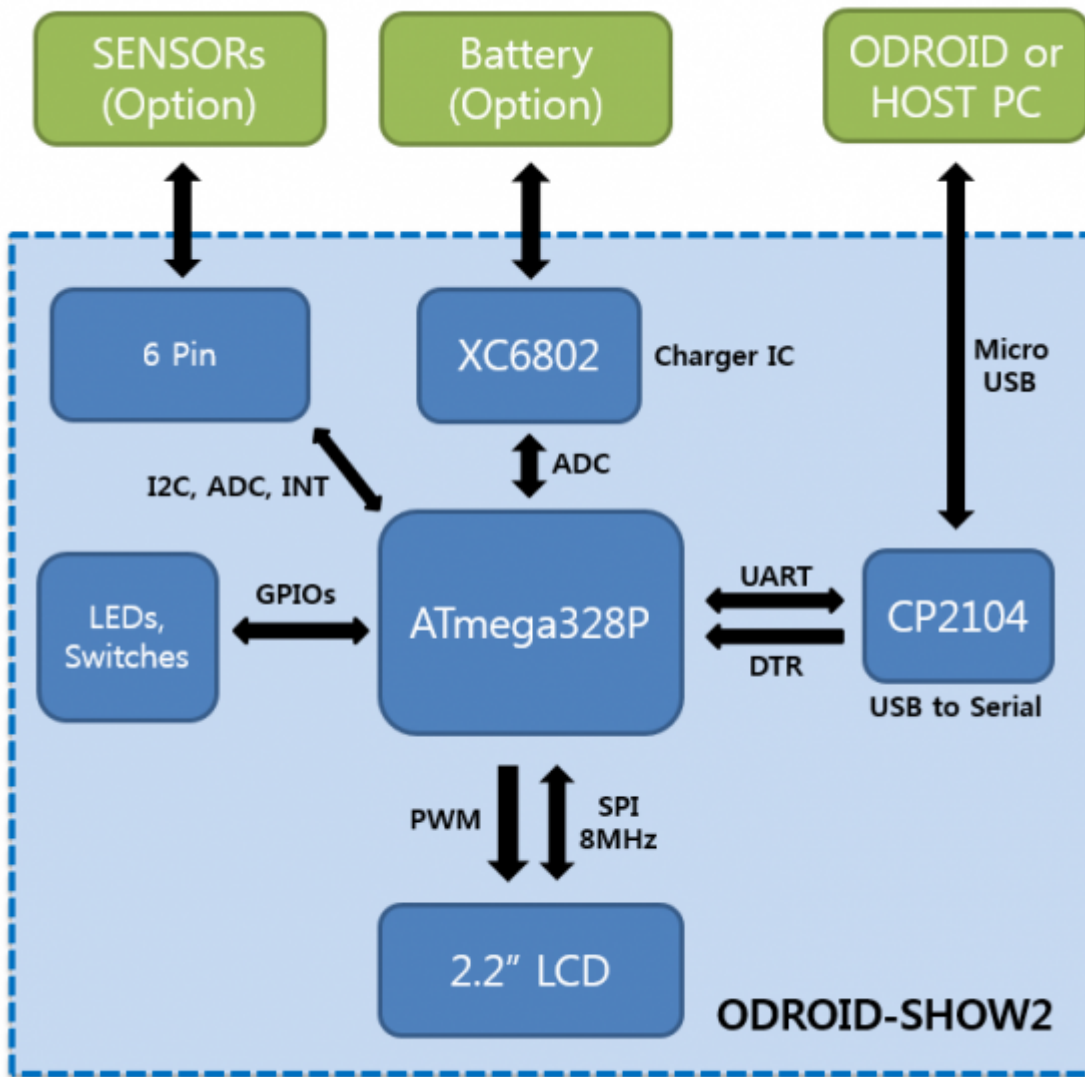


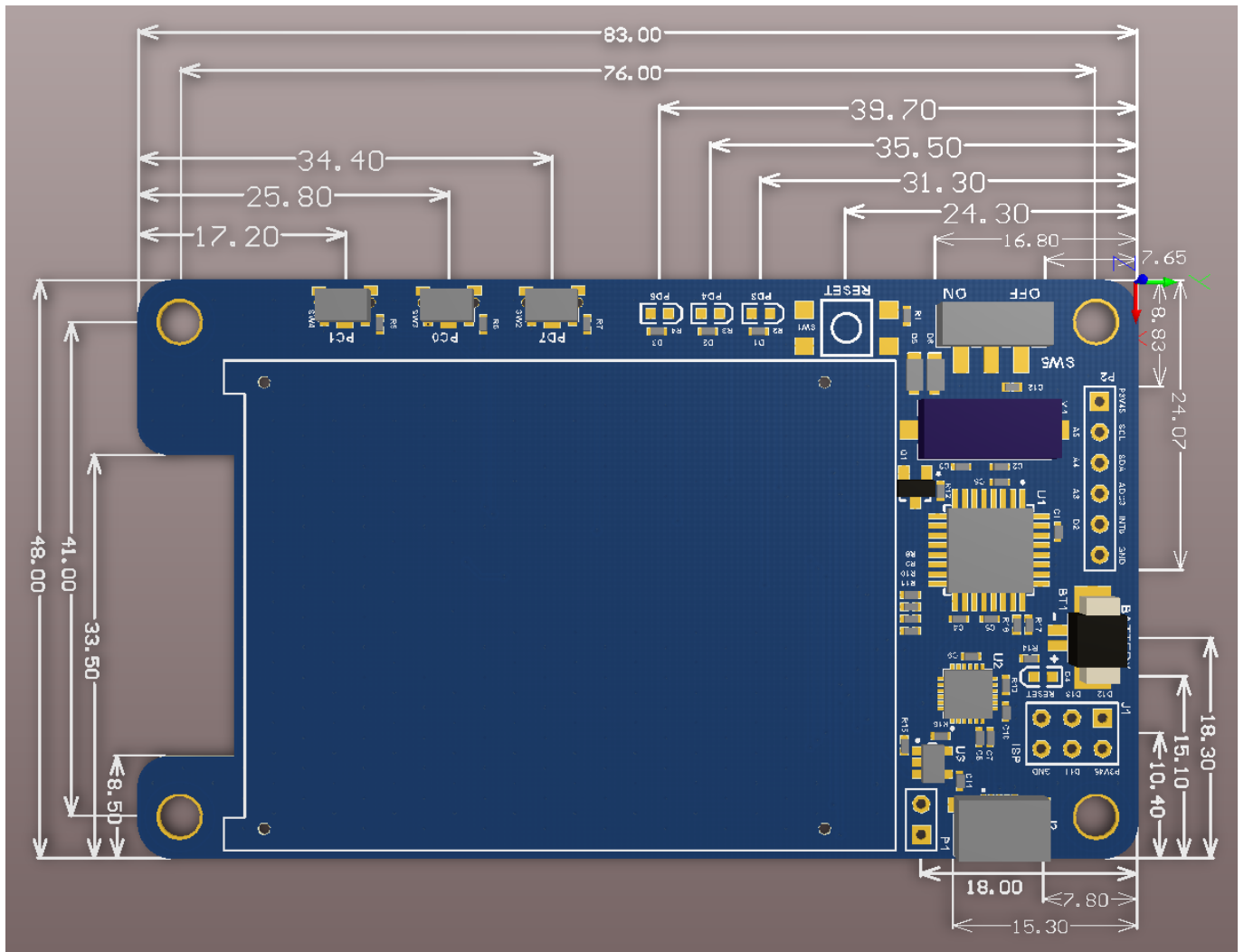
	ODROID-SHOW	ODROID-SHOW2
MCU	ATmega328P at 16Mhz	

	ODROID-SHOW	ODROID-SHOW2
LCD	2.2" 240×320 TFT-LCD (SPI 8MHz interface)	
Host interface	USB to UART via on-board CP2104	
Input Voltage	3.7 ~ 5.5 Volt	
Power consumption	60mA @ 5Volt	
MCU/LCD Voltage	3.45 V from CP2104 on-chip voltage regulator	
Serial Port Settings	Baud rate:500,000 bps (0.5Mbps)	
	Stop bits : 8-N-1	
	No H/W, S/W Flow Control	
Battery Charging	No	Charge the battery to 500mA

Diagrams & Physical Dimensions







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