

Output

The diagram illustrates the output connections for the H-DISPLAY, V-DISPLAY, SOUND, and BUZZER components. The connections are as follows:

- H-DISPLAY:** Connected to PB0/SDA/MOSI (pin 4), PB2/SCL/SCK (pin 3), VCC (pin 2), and GND (pin 1).
- V-DISPLAY:** Connected to PB0/SDA/MOSI (pin 4), PB2/SCL/SCK (pin 3), VCC (pin 2), and GND (pin 1).
- SOUND (MSK12C02-HB):** Connected to PB4 (pin 3) and GND (pin 1).
- BUZZER (YS-SBZ7525C03R16):** Connected to PB4 (pin 3) and GND (pin 1).

The diagram also shows the internal connections of the components and the power supply connections.

POWER

JS202011SCQN

ExtVCC

CR2032

VCC

GND

1 2 3 4 5 6

1. Solder JX to JUD position
2. Solder JY to JLR position
3. Swap resistors R1 (88k) and R3 (33k)

1. Solder JC to PB3 for acting as independent button
2. Solder JC to PB1 for acting as duplicate of ACT button
3. Leave JC open if not used

1. 0.96" display may be installed in landscape OR portrait orientation (also 1.3" ssd1306 in landscape is supported)
2. For sound you may choose between buzzer with On/Off switch OR piezo cymbal under the display (PCB v1.1 only)
3. For MCU you may choose between SOIC OR DIP chip package
4. By default display module already has pull up resistors on SCL/SDA, so R8 and R9 may be omitted
5. EEPROM IC may not be installed, if so C3 is not needed
6. R1 and R4 have uncommon value of 88k, it's OK to replace them with 91k
7. For programming you may use unoccupied ISP connector
8. Always switch OFF the power during programming
9. For more information visit: <https://github.com/Yevgeniy-Olexandrenko/tiny-handheld>

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	Company: Olexandrenko	Sheet: 1/1
	Date: 2020-10-28	Drawn By: Yevgeniy