

# ATmega16U4 Development Board

Sheet: PSU\_Block



File: PSU.sch

Sheet: Button\_Block



File: Button.sch

Sheet: USB\_Block



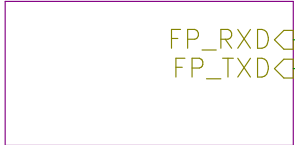
File: USB.sch

Sheet: BT\_Block



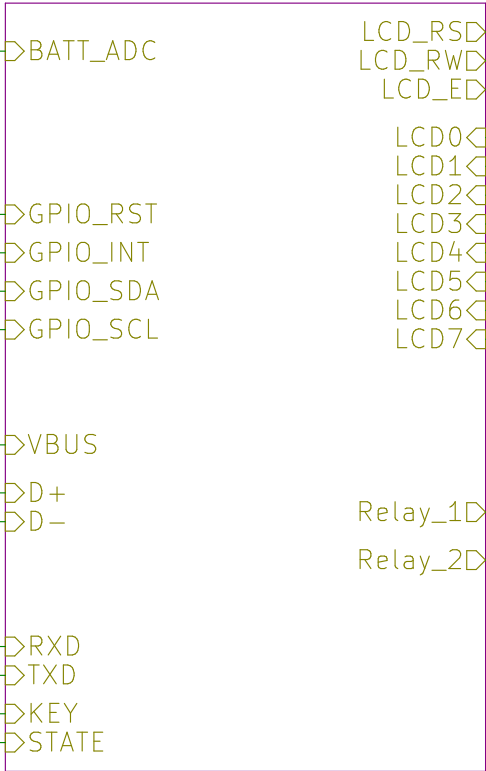
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Sheet: FINGER\_Block



File: FINGER.sch

Sheet: MCU\_Block



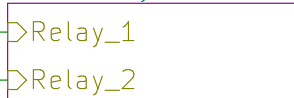
File: MCU.sch

Sheet: LCD\_Block



File: LCD.sch

Sheet: Relay\_Block



File: Relay.sch

Development Board

**ESTSetubal**

Sheet: /

File: ATmega16U4.sch

**Title: ATmega16U4**

Size: A4

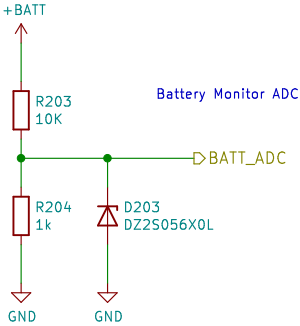
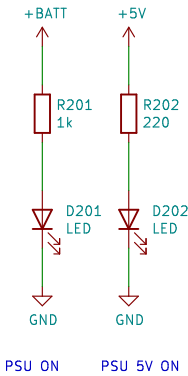
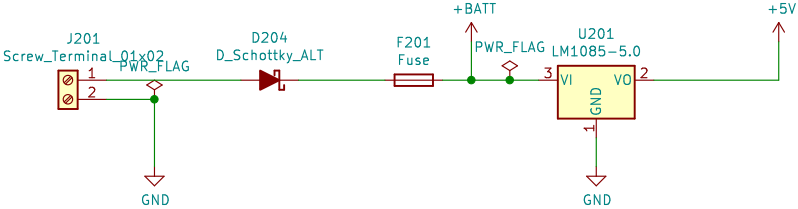
Date: 2020-11-04

**Rev: R1.0**

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# PSU Block



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Sheet: /PSU\_Block/

File: PSU.sch

**Title: ATmega16U4**

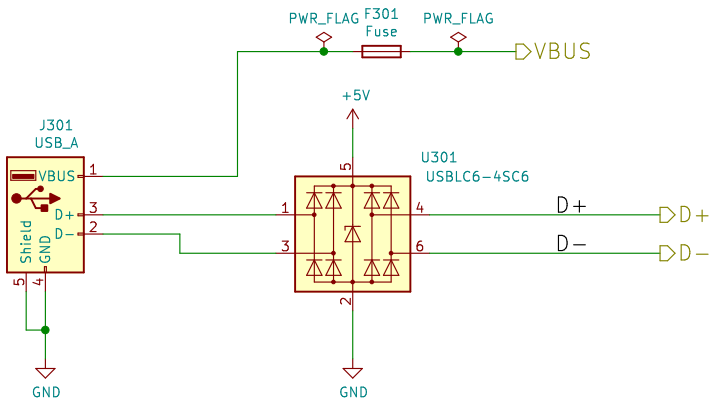
Size: A4 Date: 2020-11-04

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# USB Connector Block



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Sheet: /USB\_Block/

File: USB.sch

**Title: ATmega16U4**

Size: A4

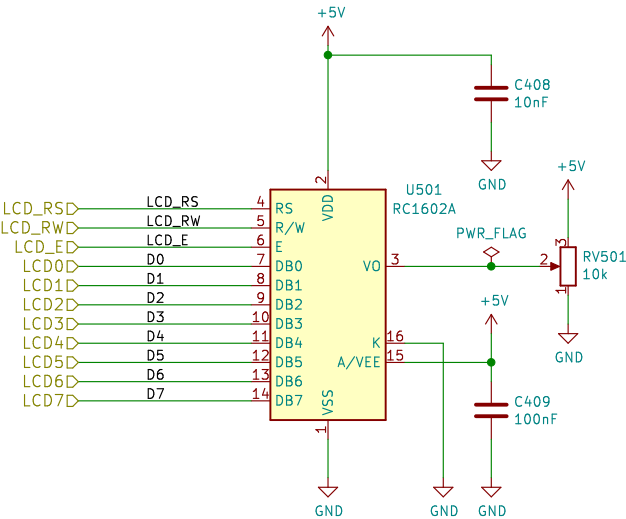
Date: 2020-11-04

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LCD  
RC1602A  
16x2



Development Board

**ESTSetubal**

Sheet: /LCD\_Block/

File: LCD.sch

**Title: ATmega16U4**

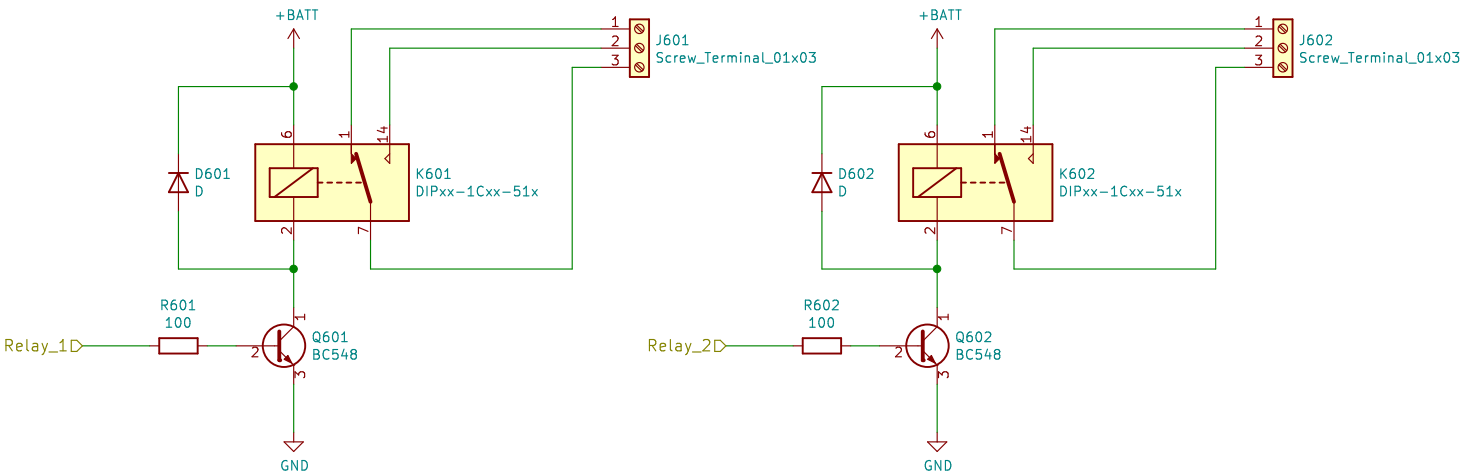
Size: A4 Date: 2020-11-04

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# Relay Control Block



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**ESTSetubal**

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File: Relay.sch

**Title: ATmega16U4**

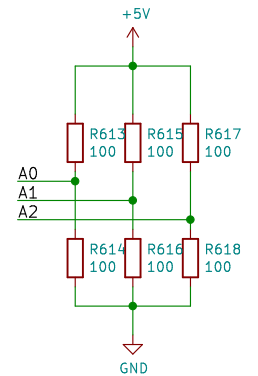
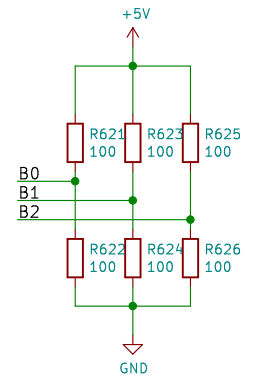
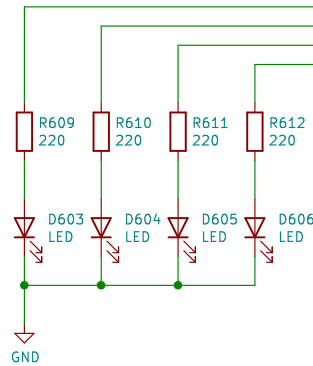
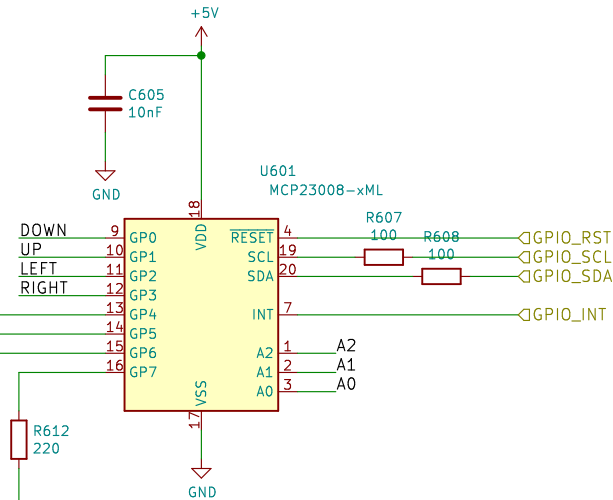
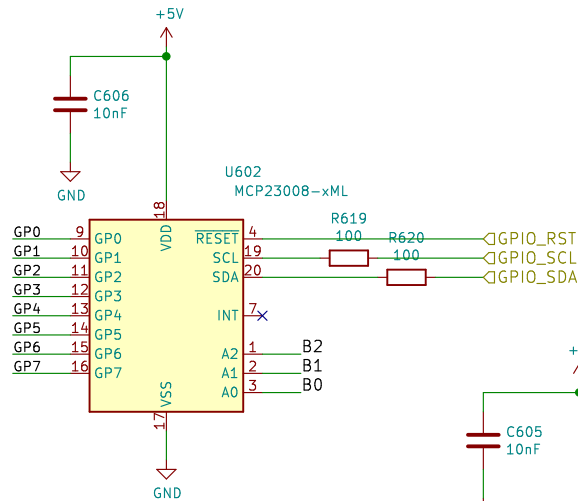
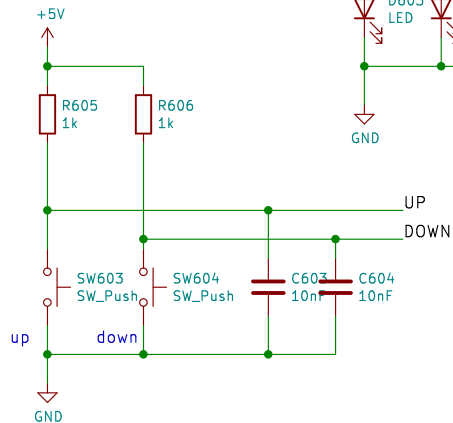
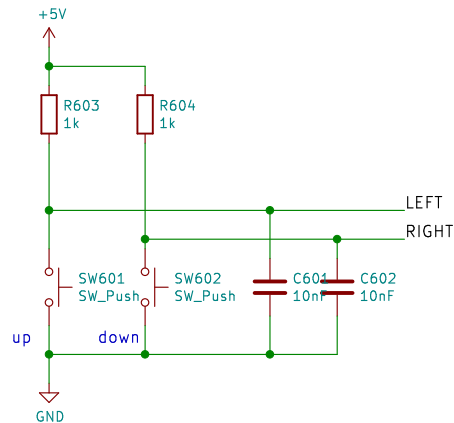
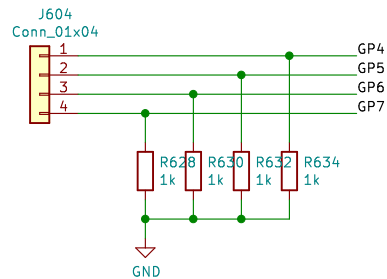
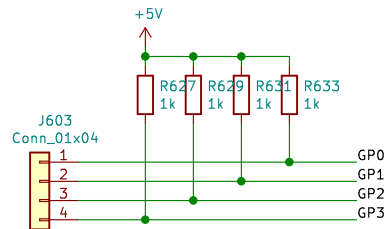
Size: A4 Date: 2020-11-04

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# MCP23008 GPIO Expander



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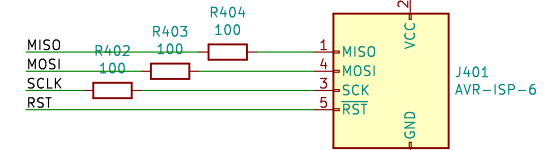
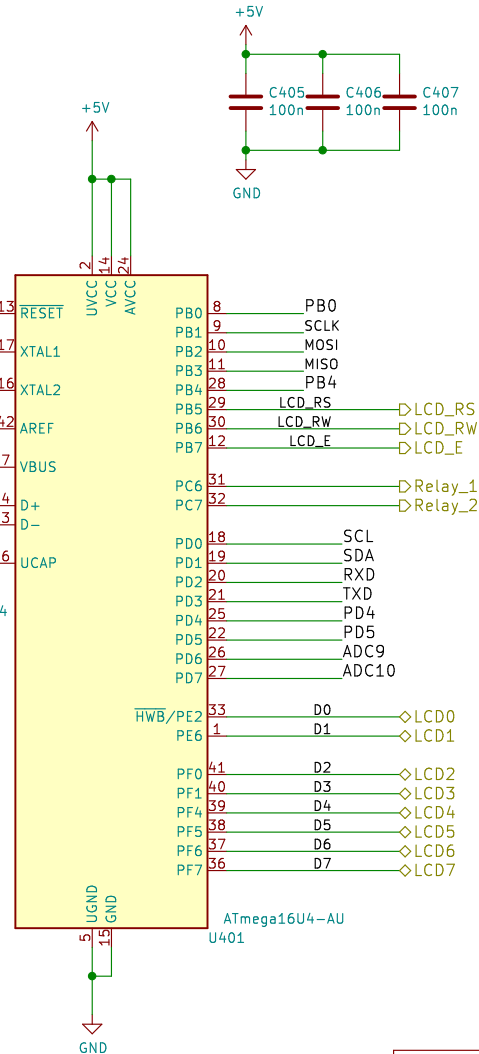
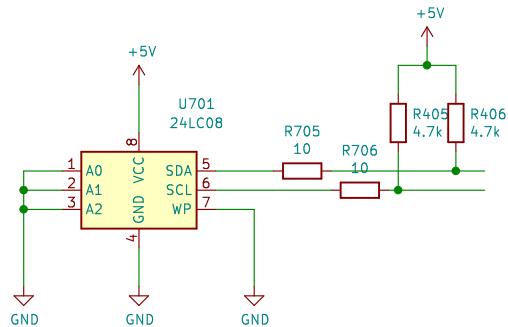
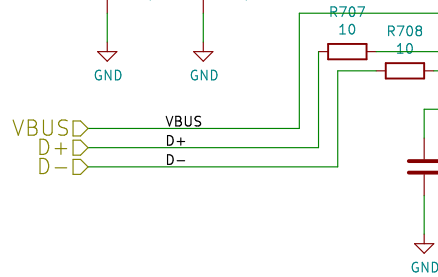
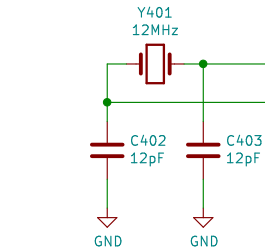
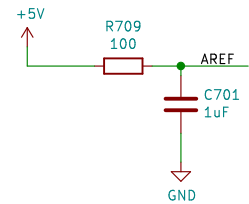
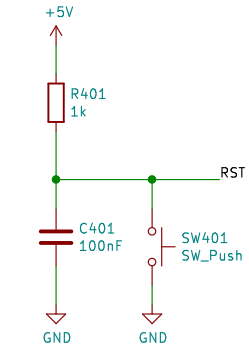
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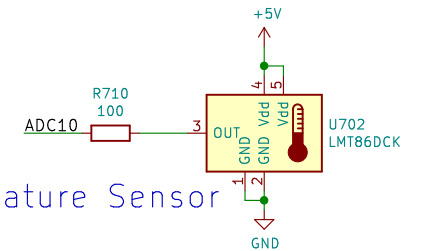
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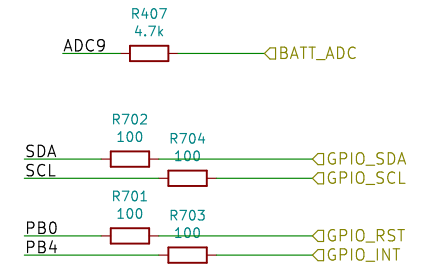
# ATmega16U4-AU



ISP Connector



Temperature Sensor



EEPROM

Development Board

**ESTSetubal**

Sheet: /MCU\_Block/

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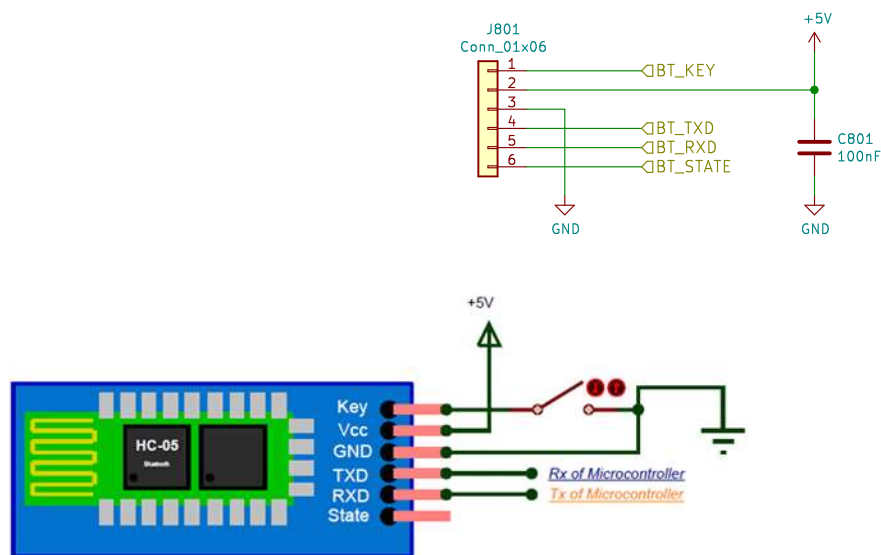
Size: A4 Date: 2020-11-04

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# Bluetooth HC-05 Connector interface



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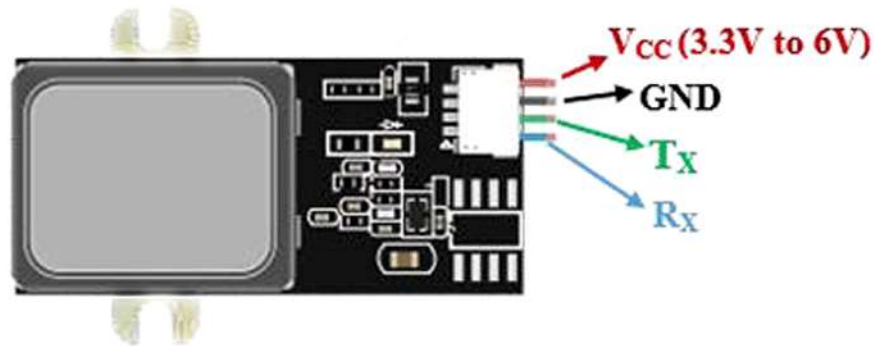
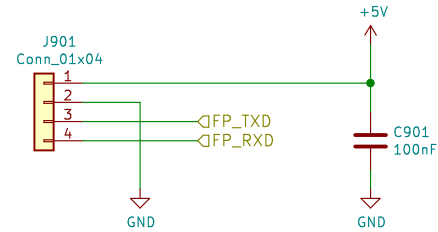
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# GT511C3 Fingerprint Scanner Module



Development Board

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