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System Block:

Subboard 1
Subboard 2
Subboard 3
Subboard 4 ...

connector to subboards

T0-T14
remaining GPIOs

ESP32-S2-MINI-1

I2C
GPIO
Digital tubes drive IC
RGB LED
GPIO
Buzzer

4 MB Flash

Micro-USB
VBUS

ESP-PROG CON

VCC 5V

5V
5V to 3V3
LED

VDD33

5V

LDO

JTAG

UART0

CP2102

4 MB Flash

ESP_3V3

VDD33

VDD33

VDD33
USB to UART:

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<td>V1.0</td>
<td>Friday, March 12, 2021</td>
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Power

- VCC_5V
- GND
- +5V_A
- +5V_B
- VBUS

JTAG Port

- ESP_TDI
- ESP_TDO
- ESP_TMS
- ESP_TCK

Mounting Holes

- Hole_M3

Diagram showing various components and connections, including USB to UART, power supply, JTAG port, and mounting holes.