Power

Sheet: Power

1

File: Power.sch

MCU

Sheet: MCU

2

File: STM32L4.sch

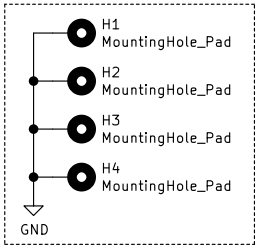
IO Connectors

Sheet: IO_Connectors

3

File: IO_Connectors.sch

Mounting Holes



Module based PCB design around an STM32L4 µC for predictive maintenance of stepper motor and realization of digital twin.

Designer: Alysandratos Spyridon
University of Patras

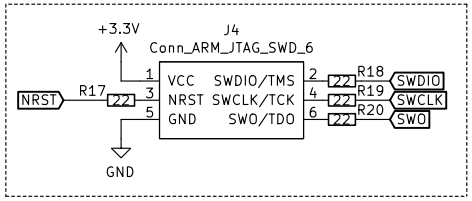
Sheet: /
File: STM32_Edge_Computing_Device.sch

Title: STM32 Edge Computing Device

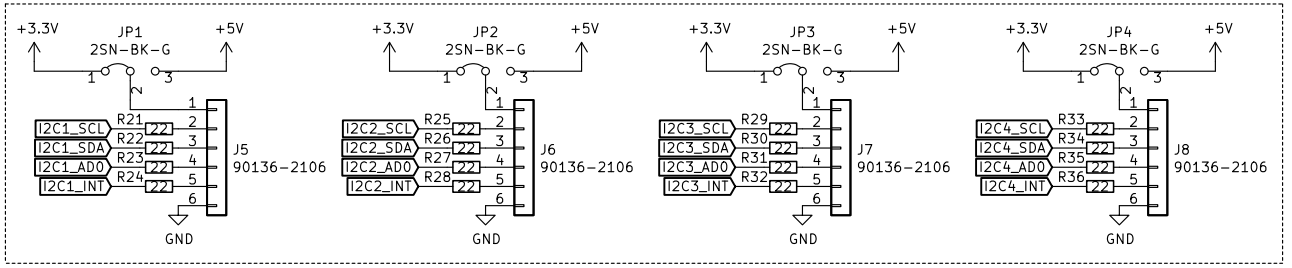
Size: A4	Date: 2021-09-03	**Rev: 1.1**
KiCad E.D.A. kicad (5.1.10)-1		Id: 1/4

IO Connectors

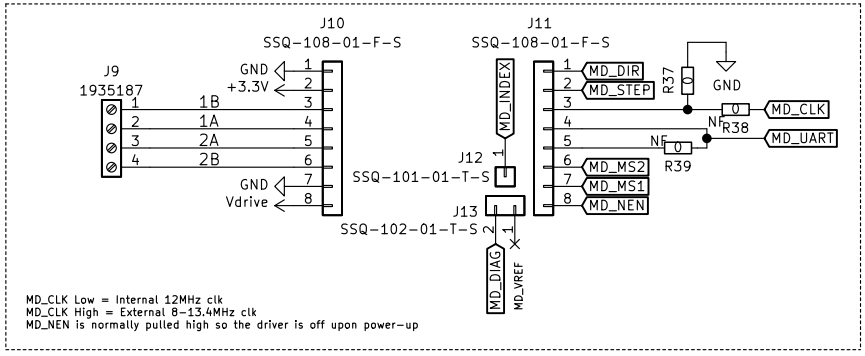
SWD Probe Connector



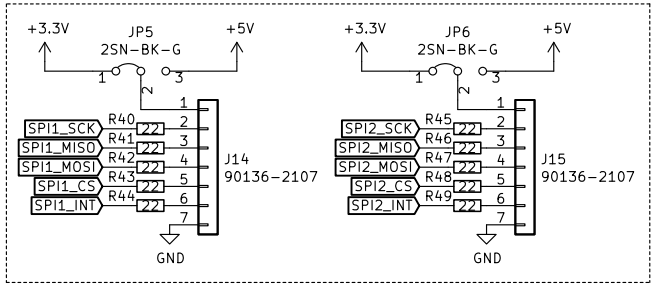
I2C Connectors



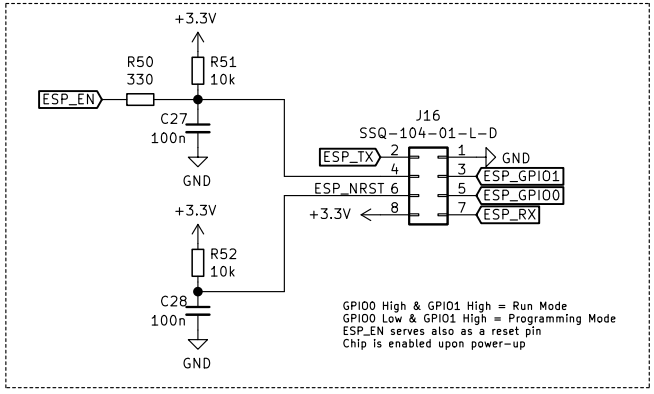
Motor Driver Connector



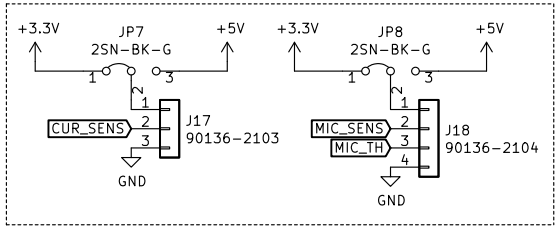
SPI Connectors



ESP8266 Connector



Analog Connectors



Module based PCB design around an STM32L4 µC for predictive maintenance of stepper motor and realization of digital twin.

Designer: Alysandratos Spyridon
University of Patras

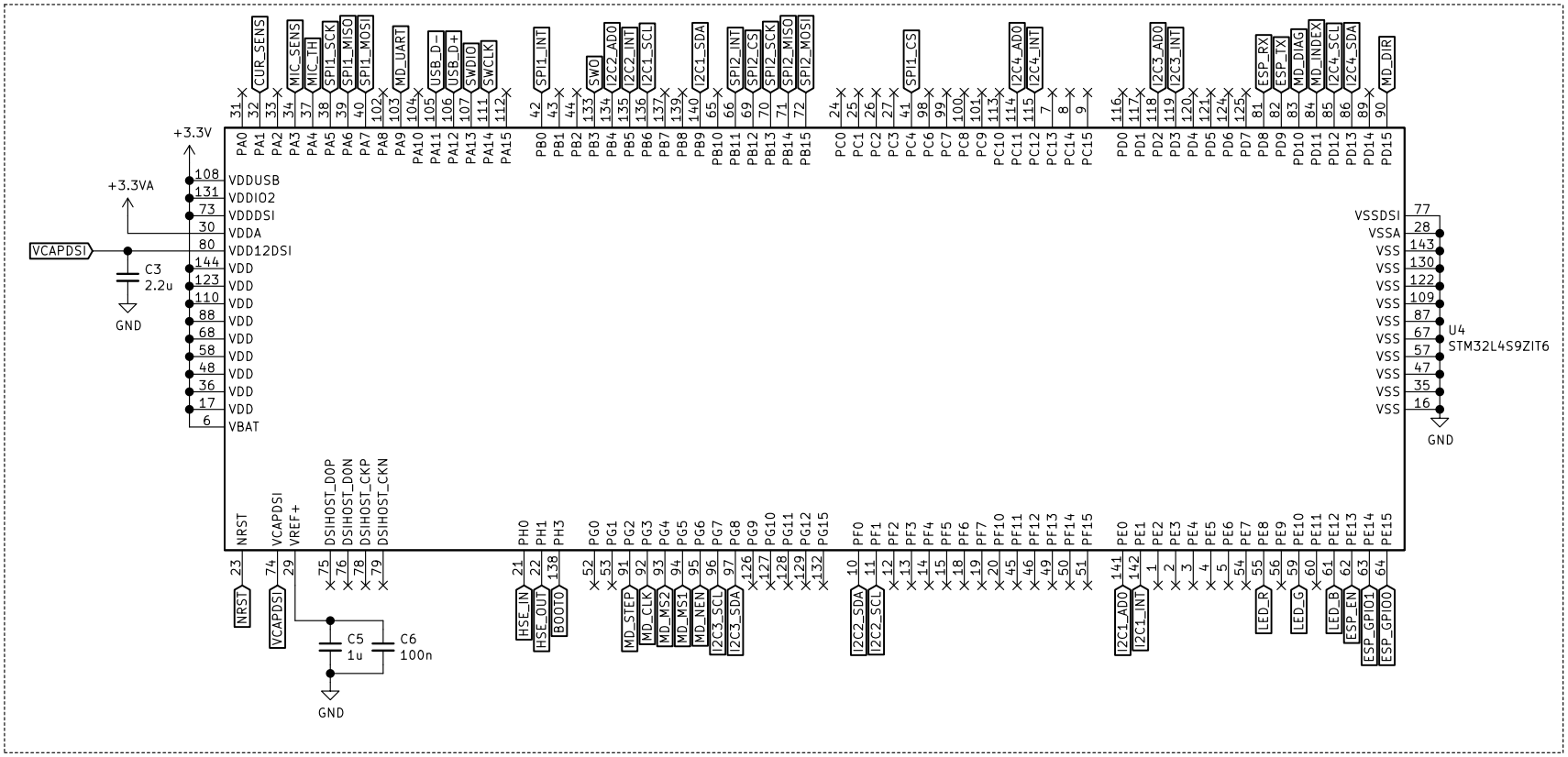
Sheet: /IO Connectors/
File: IO_Connectors.sch

Title: STM32 Edge Computing Device

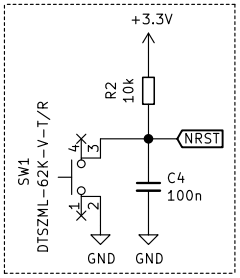
Size: A4	Date: 2021-09-03	**Rev: 1.1**
KiCad E.D.A. kicad (5.1.10)-1		Id: 2/4

MCU

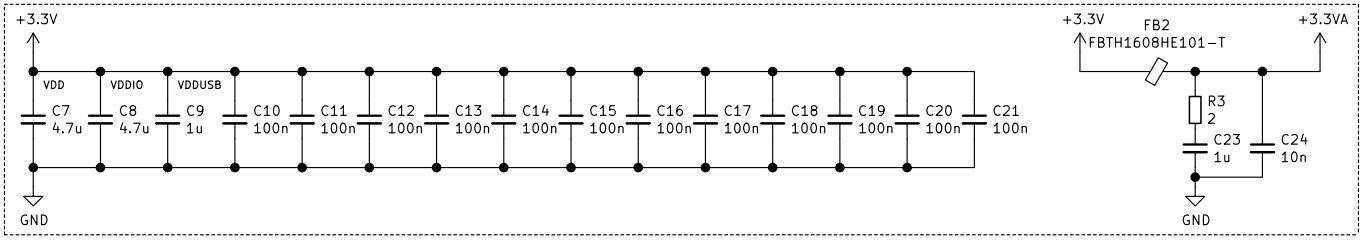
STM32



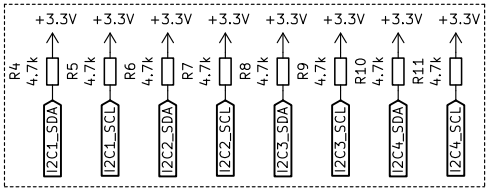
Reset Button



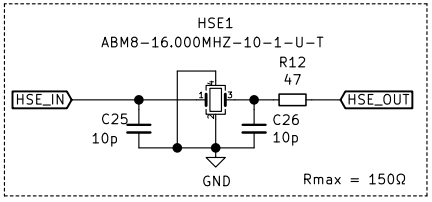
Decoupling



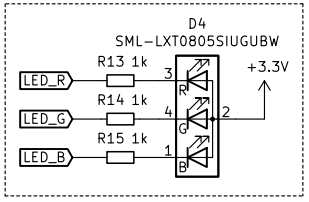
I2C Pull-ups



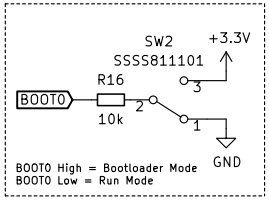
HSE Crystal Oscillator



RGB LED



Boot Mode Switch



Module based PCB design around an STM32L4 µC for predictive maintenance of stepper motor and realization of digital twin.

Designer: Alysandratos Spyridon
University of Patras

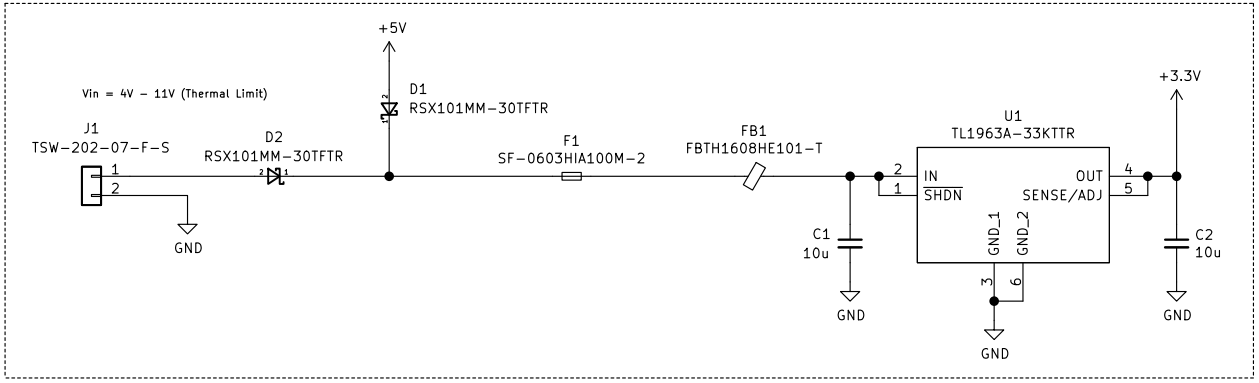
Sheet: /MCU/
File: STM32L4.sch

Title: STM32 Edge Computing Device

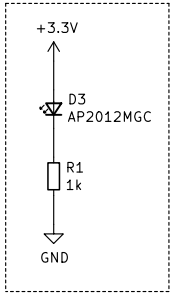
Size: A4	Date: 2021-09-03	**Rev: 1.1**
KiCad E.D.A. kicad (5.1.10)-1		Id: 3/4

Power

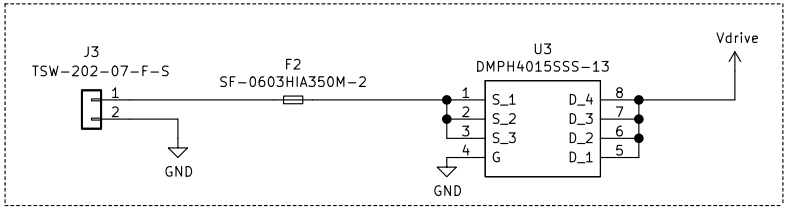
3.3V LDO



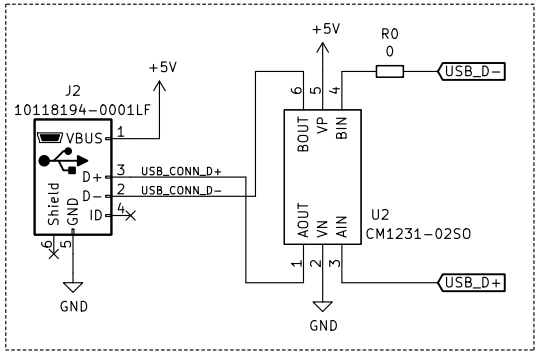
Power LED



Motor Supply



USB



Module based PCB design around an STM32L4 µC for predictive maintenance of stepper motor and realization of digital twin.

Designer: Alysandratos Spyridon
University of Patras

Sheet: /Power/
File: Power.sch

Title: STM32 Edge Computing Device

Size: A4	Date: 2021-09-03	**Rev: 1.1**
KiCad E.D.A. kicad (5.1.10)-1		Id: 4/4