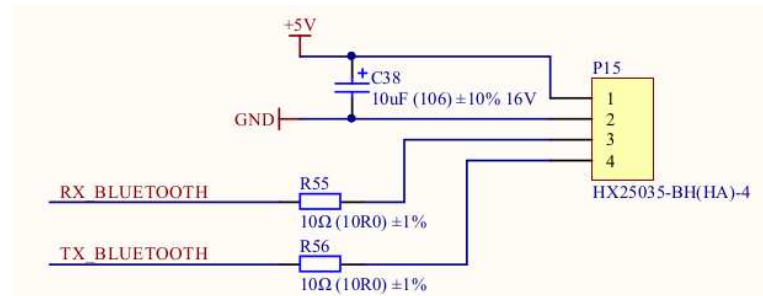# NGP RM18/RM24 PCB
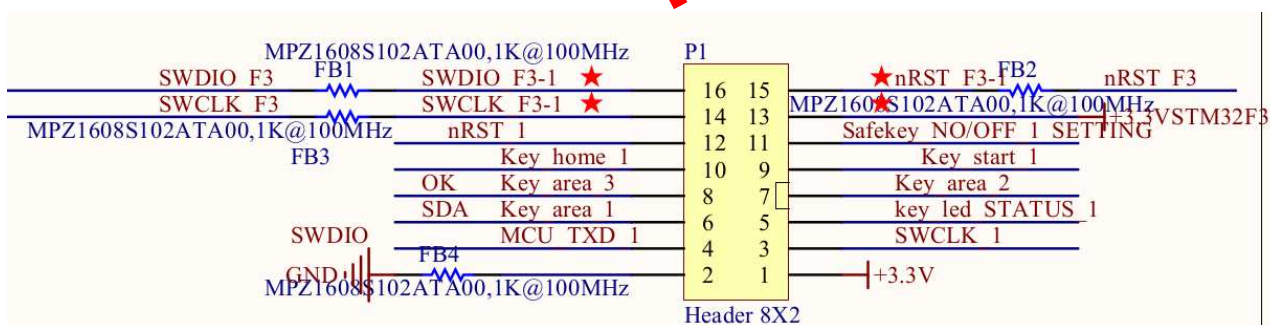
This PCB can be controlled by a Raspberry (Sunray firmware with SERIAL_ROBOT_DRIVER) via serial port. The STM32 has to be flashed for this:

Firmware: https://github.com/Ardumower/Sunray/blob/master/alfred/

Serial

HardwareSerial mSerial2(pinBluetoothRX, pinBluetoothTX); // rx, tx - UART available at NGP PCB

STM32

MCU1 (main/F1): STM32F103VET 512K flash/64K SRAM
    flash size   0x80000
    bootloader start 0x8000000
MCU2 (perimeter/F3): STM32F302xB-xC/
  STM32F303xB-xC (Cortex-M4, 256 KB)

Serial

SoftwareSerial mSerial(pinKeyArea3, pinKeyArea1); // rx, tx - SoftUART available at display panel