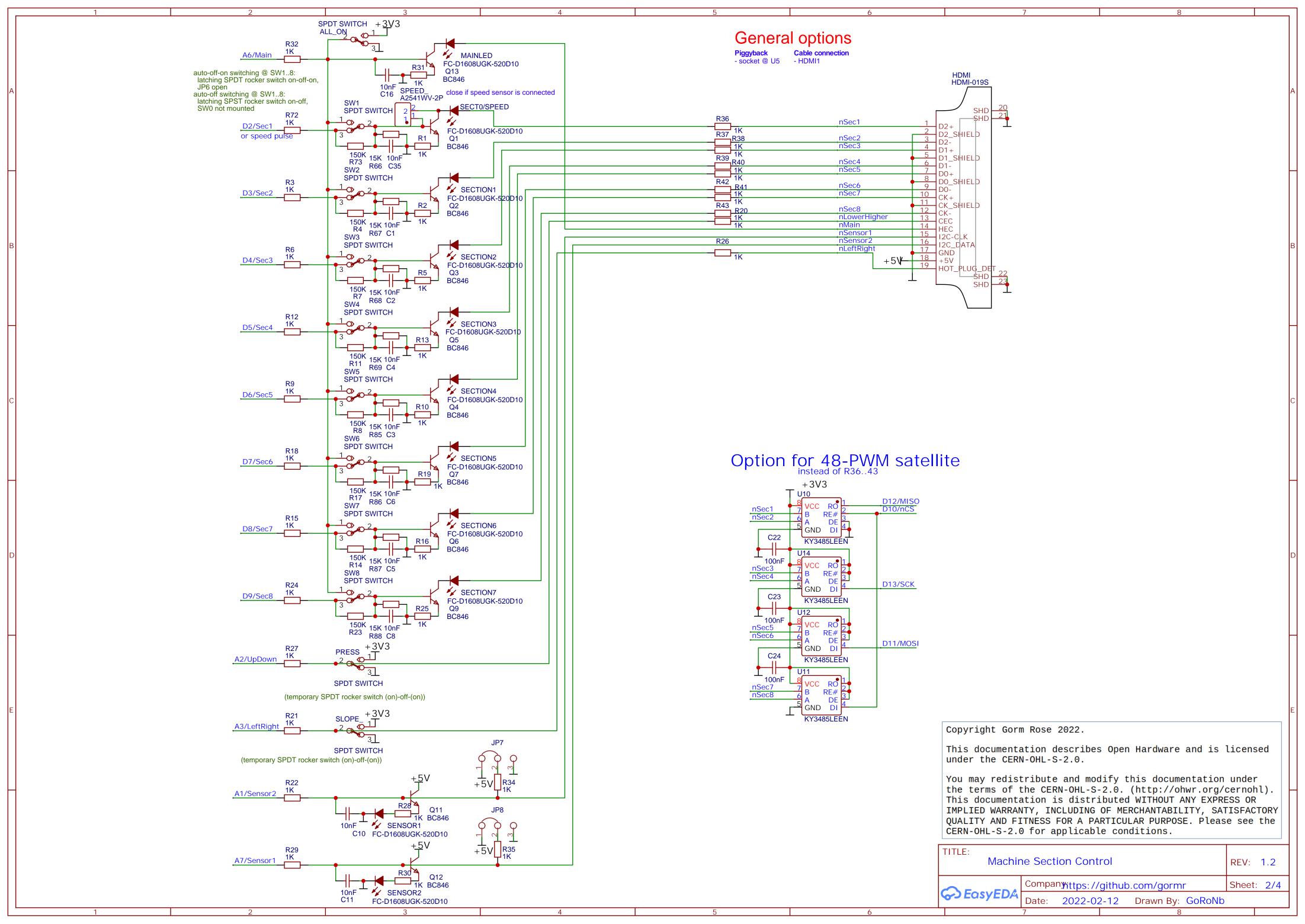
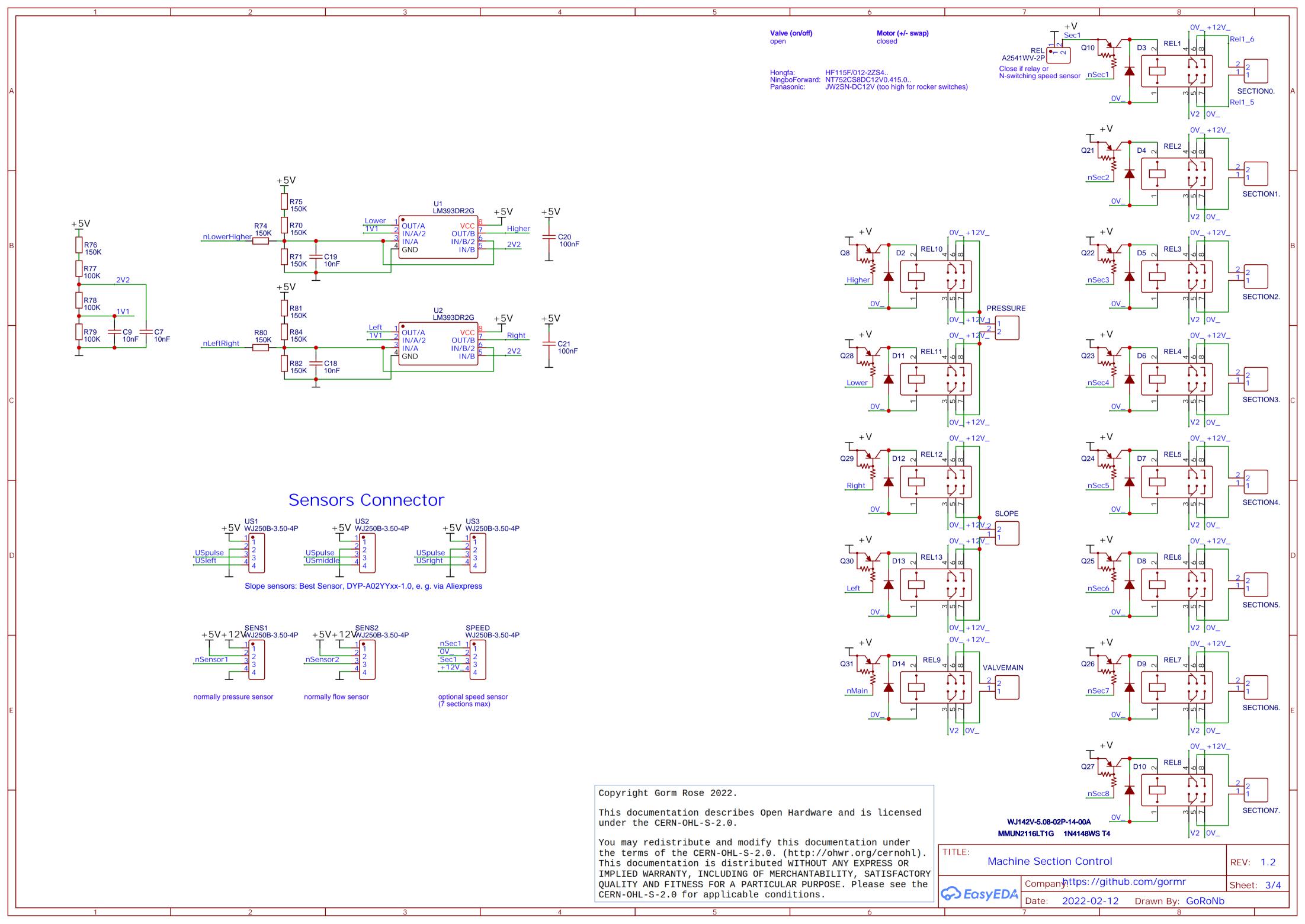
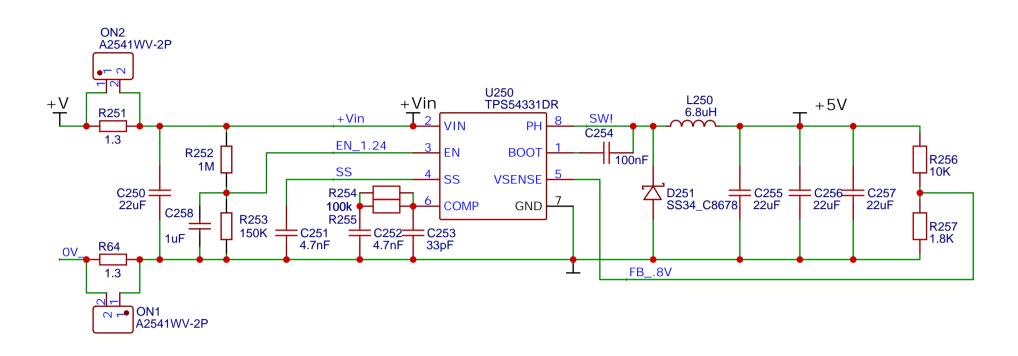
LED colors: white: power green/blue: serial data RxD/TxD yellow/orange: I/O from Central Unit Board USB: only needed if not connected to Central Unit + 3V3 FC-DA1608BK-470H10 **USB-C PC/Tablet** B5819W_C8598 USBC TYPE-C-31-M-12 CN3 A2541WV-5P +5V H10 +2541WV-2X4P RXD1 FC-D1608UGK-520D10 CH340B R108 1K GND TXD 100nF TNOW RTS# RXD DTR# GPIO, e. g. Serial DCD# VBUS A2541WV-2F BC846AMTF ✓ BC846AMTF B5819W_C8598 +3V3 _TxD_SC 100nF C26 Light guides for LEDs: Mentor 1293.1100 e. g. 100uH R90 10K \perp THV8000DDFR B5819W_C8598 D19 D20 **Atmel** ATMEGA328P-AU D2/Sec1 or speed pulse PCINT19/OC2B/INT1)PD3 PD2(INTO/PCINT18 PCINT20/XCK/T0)PD4 PD1(TXD/PCINT e. g. https://de.aliexpress.com/item/32843855386.html PDO(RXD/PCINT PC6(RESET#/PCINT X3 16MHz PC5(ADC5/SCL/PCINT1 +3V3 PC4(ADC4/SDA/PCINT PC3(ADC3/PCINT PCINT7/XTAL2/TOSC2)PB7 PC2(ADC2/PCINT1 μC: ESP32 ...or... PC1(ADC1/PCINT PCINT21/OC0B/T1)PD5 https://github.com/mtz8302/AOG_SectionControl_ESP32 PCINTO/CLKO/ICP1)PB GND CINT1/OC1A)PB1 A6/Main CINT2/SS#/OC1B)PB2 7 D13/SCK C73 100nF PCINT3/OC2A/MOSI)PB3 PB5(SCK/PCINT5 PCINT4/MISO)PB4 Initial programming: https://www.arduino.cc/en/Tutorial/BuiltInExamples/ArduinoISP R52 **10K** TXD0 SENSOR_VN RXDO 1021 D12/MISO D13/SCK D10/nCS 1018 Copyright Gorm Rose 2022. 105 D2/Sec1 or speed pulse 1017 1016 This documentation describes Open Hardware and is licensed D4/Sec3 **PRGBOOT** GPI00 under the CERN-OHL-S-2.0. A2541WV-7P WORK SPDT SWITCH +<u>3</u>V3 GND 102 D5/Sec4 nUSright 1015 SD1 SD0 You may redistribute and modify this documentation under D13/SCK SD1 23 SD0 24 CLK 29 the terms of the CERN-OHL-S-2.0. (http://ohwr.org/cernohl). D12/MISO This documentation is distributed WITHOUT ANY EXPRESS OR +5V D11/MOSI STEER SPDT SWITCH D10/nCS _Reset_SC IMPLIED WARRANTY, INCLUDING OF MERCHANTABILITY, SATISFACTORY R93 10K ESP32-WROOM-32U(16MB) QUALITY AND FITNESS FOR A PARTICULAR PURPOSE. Please see the FC-DA1608BK-470H10 CERN-OHL-S-2.0 for applicable conditions. Q17 2N7002 TITLE: μ C and communication **REV:** 1.2 Companyhttps://github.com/gormr Sheet: 1/4 **EasyED** 2022-02-12 Drawn By: GoRoNb

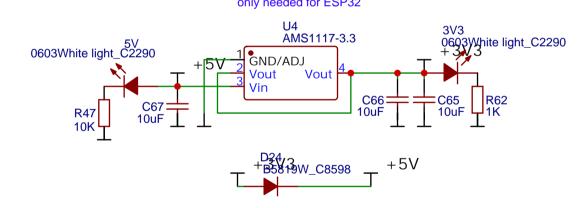


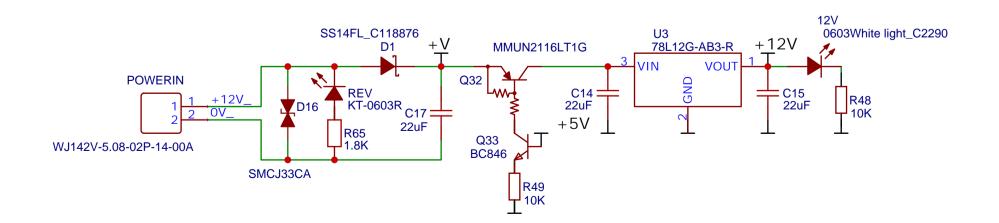


Switch Mode Power Supply Batt => 5V (needed for Ethernet and Wifi only)



Power Supply 5V = > 3V3





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	TITLE: Power Supply					REV:	1.2
	EasyEDA	Companyhttps://github.com/gormr				Sheet:	4/4
		Date:	2022-02-12	Drawn By:	GoRoNb		