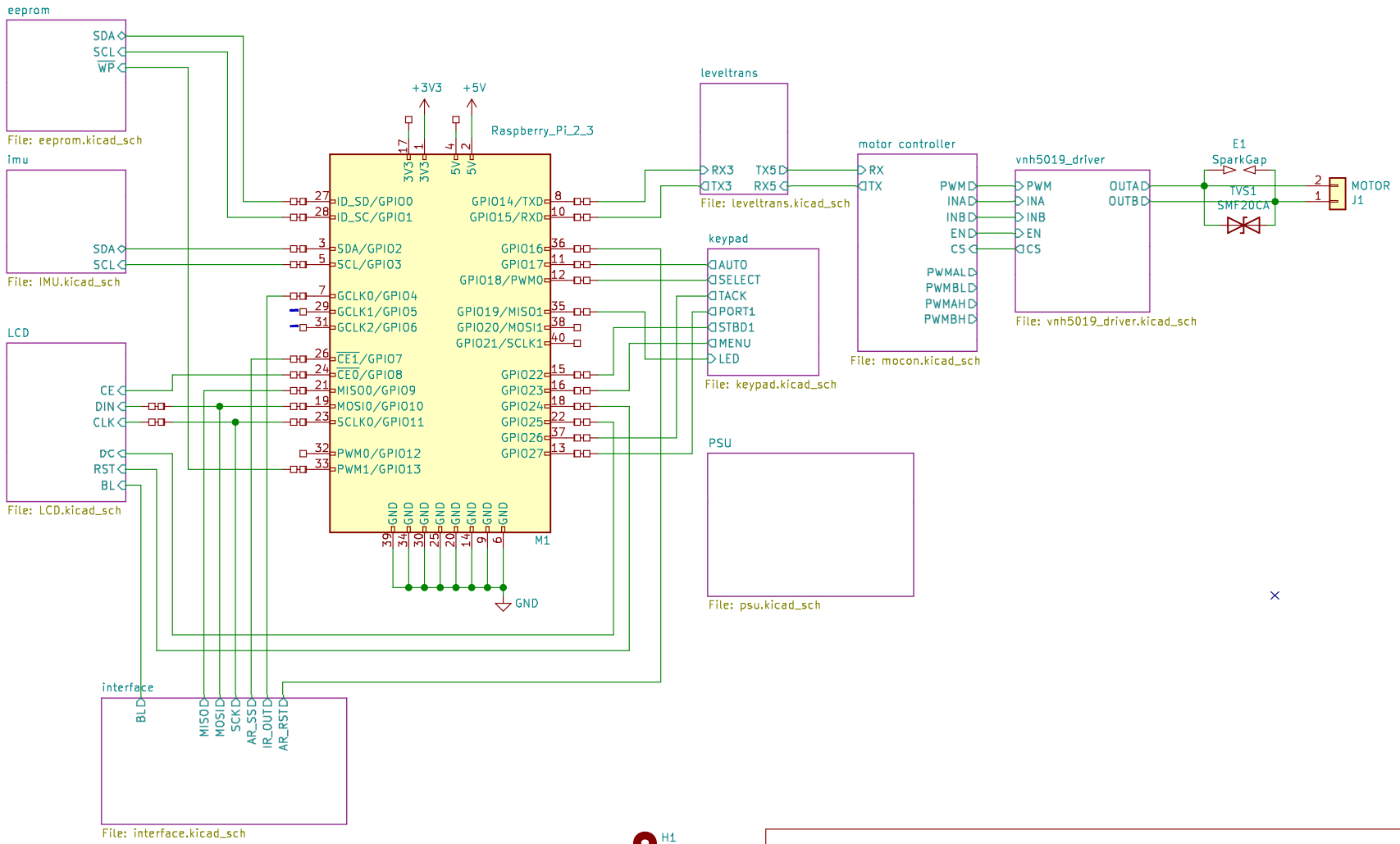
My first trivially simple version:
https://forum.openmarine.net/attachment.php?aid=1078
eeprom
SDA
SCL
WP
File: eeprom.kicad_sch
imu
SDA
SCL
File: IMU.kicad_sch
LCD
CE
DIN
CLK
DC
RST
BL
File: LCD.kicad_sch
+3V3
+5V
Raspberry_Pi_2_3
ID_SD/GPIO0
ID_SC/GPIO1
SDA/GPIO2
SCL/GPIO3
GCLK0/GPIO4
GCLK1/GPIO5
GCLK2/GPIO6
CE1/GPIO7
CE0/GPIO8
MISO0/GPIO9
MOSI0/GPIO10
SCLK0/GPIO11
PWM0/GPIO12
PWM1/GPIO13
GPIO14/TXD
GPIO15/RXD
GPIO16
GPIO17
GPIO18/PWM0
GPIO19/MISO1
GPIO20/MOSI1
GPIO21/SCLK1
GPIO22
GPIO23
GPIO24
GPIO25
GPIO26
GPIO27
M1
GND
leveltrans
RX3
TX3
TX5
RX5
File: leveltrans.kicad_sch
keypad
AUTO
SELECT
TACK
PORT1
STBD1
MENU
LED
File: keypad.kicad_sch
motor controller
RX
TX
PWM
INA
INB
EN
CS
PWMAL
PWMBL
PWMAH
PWMBH
File: mocon.kicad_sch
vnh5019_driver
PWM
INA
INB
EN
CS
OUTA
OUTB
File: vnh5019_driver.kicad_sch
E1
SparkGap
TVS1
SMF20CA
MOTOR
J1
PSU
File: psu.kicad_sch
interface
BLD
MISO
MOSI
SCK
AR_SS
IR_OUT
AR_RST
File: interface.kicad_sch
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
SD card:
http://katalog.we-online.de/em/datasheet/693072010801.pdf
https://www.officeworks.com.au/shop/officeworks/p/sandisk-ultra-16gb-micro-sdhc-memory-card-sdsq16gb
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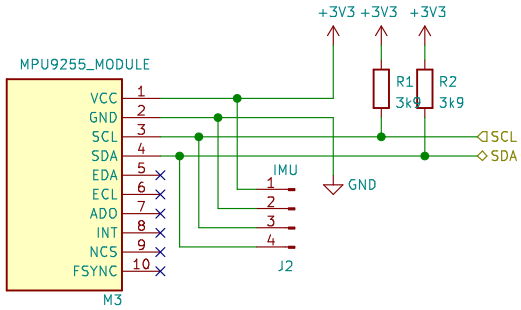
Size: A4
Date: jeu. 02 avril 2015
Rev:
KiCad E.D.A. kicad 6.0.7-1.fc36
Id: 1/10



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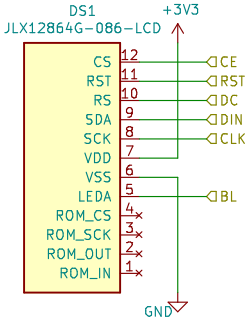
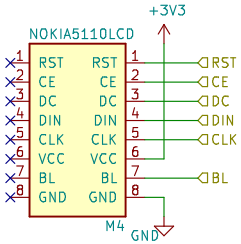
KiCad E.D.A. kicad 6.0.7-1.fc36		Id: 2/10





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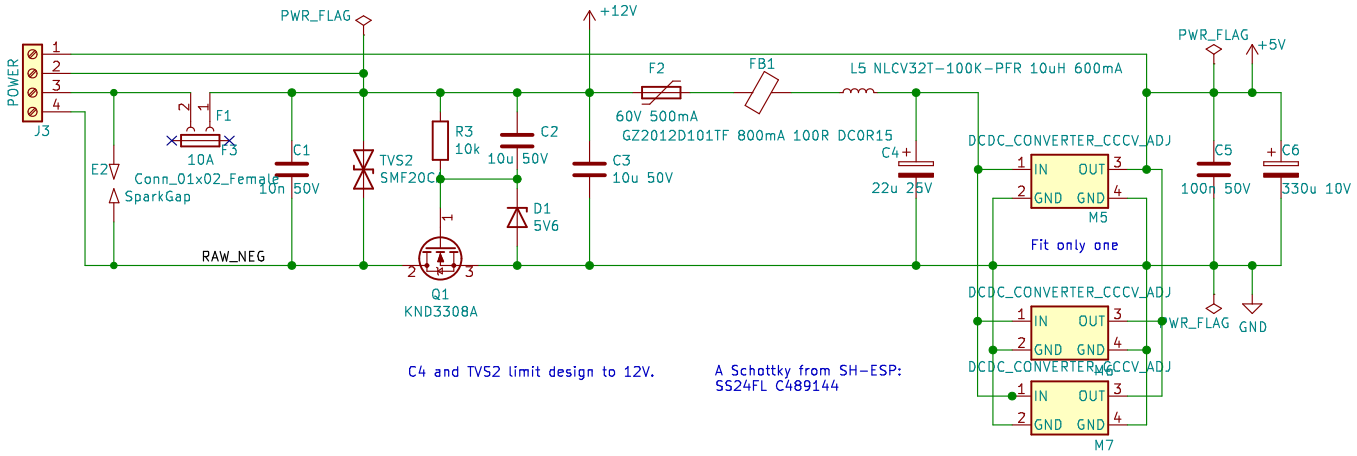

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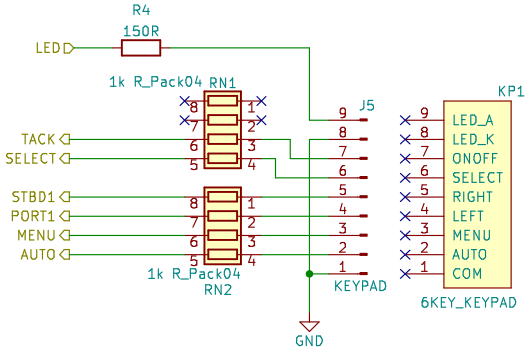
KiCad E.D.A. kicad 6.0.7-1.fc36		Id: 4/10



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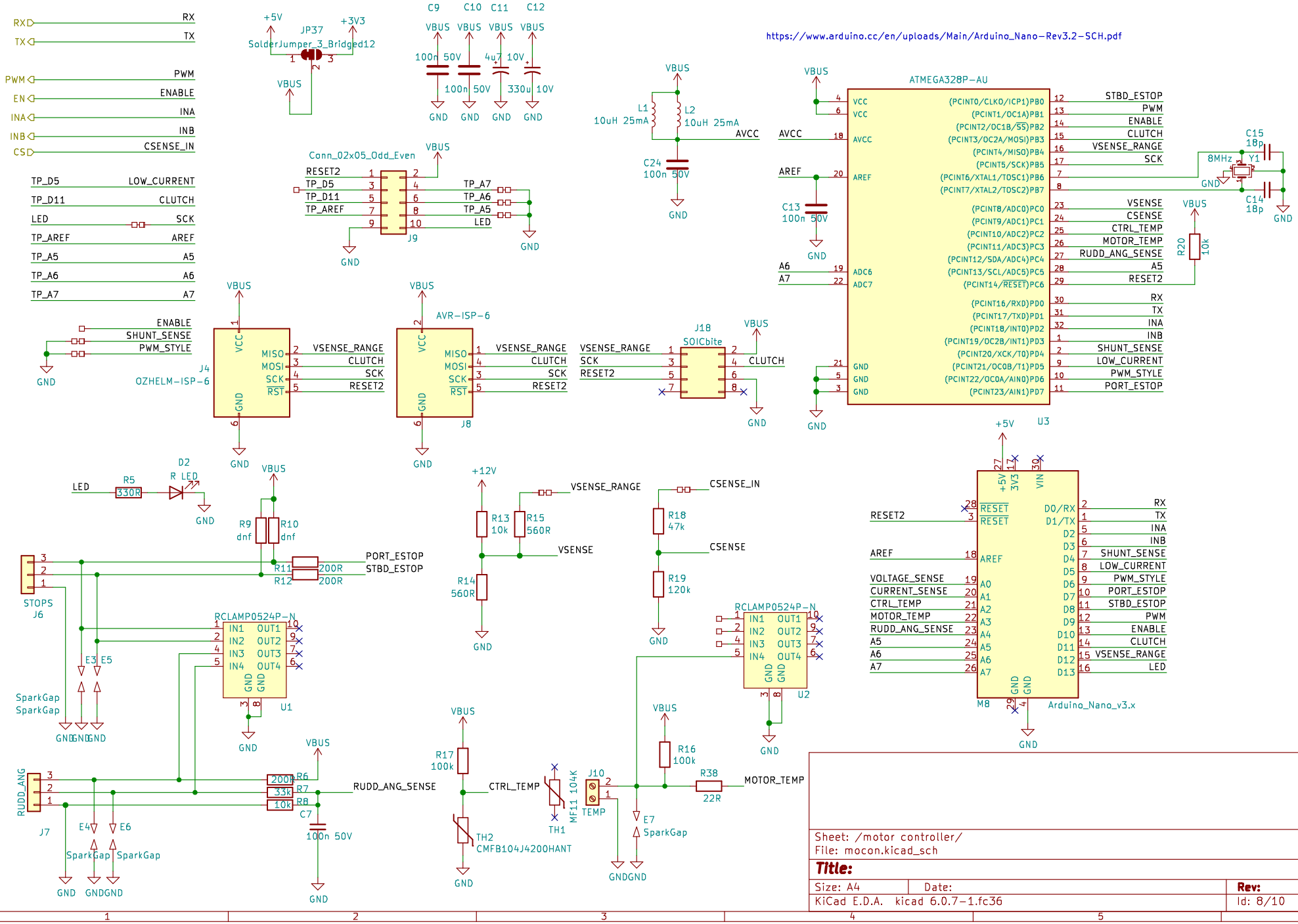
https://www.arduino.cc/en/uploads/Main/Arduino_Nano-Rev3.2-SCH.pdf
ATMEGA328P-AU
Arduino_Nano_v3.x
RCLAMP0524P-N
AVR-ISP-6
Conn_02x05_Odd_Even
SolderJumper_3_Bridged12
SOICbite
OZHELM-ISP-6
SparkGap
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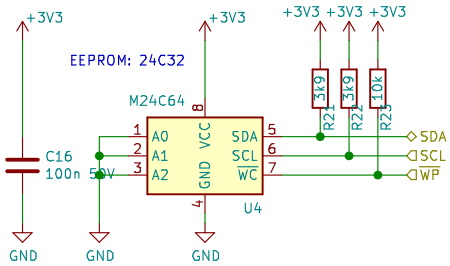
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 6.0.7-1.fc36
Id: 8/10



Hat EEPROM
https://www.raspberrypi.org/forums/viewtopic.php?t=108134

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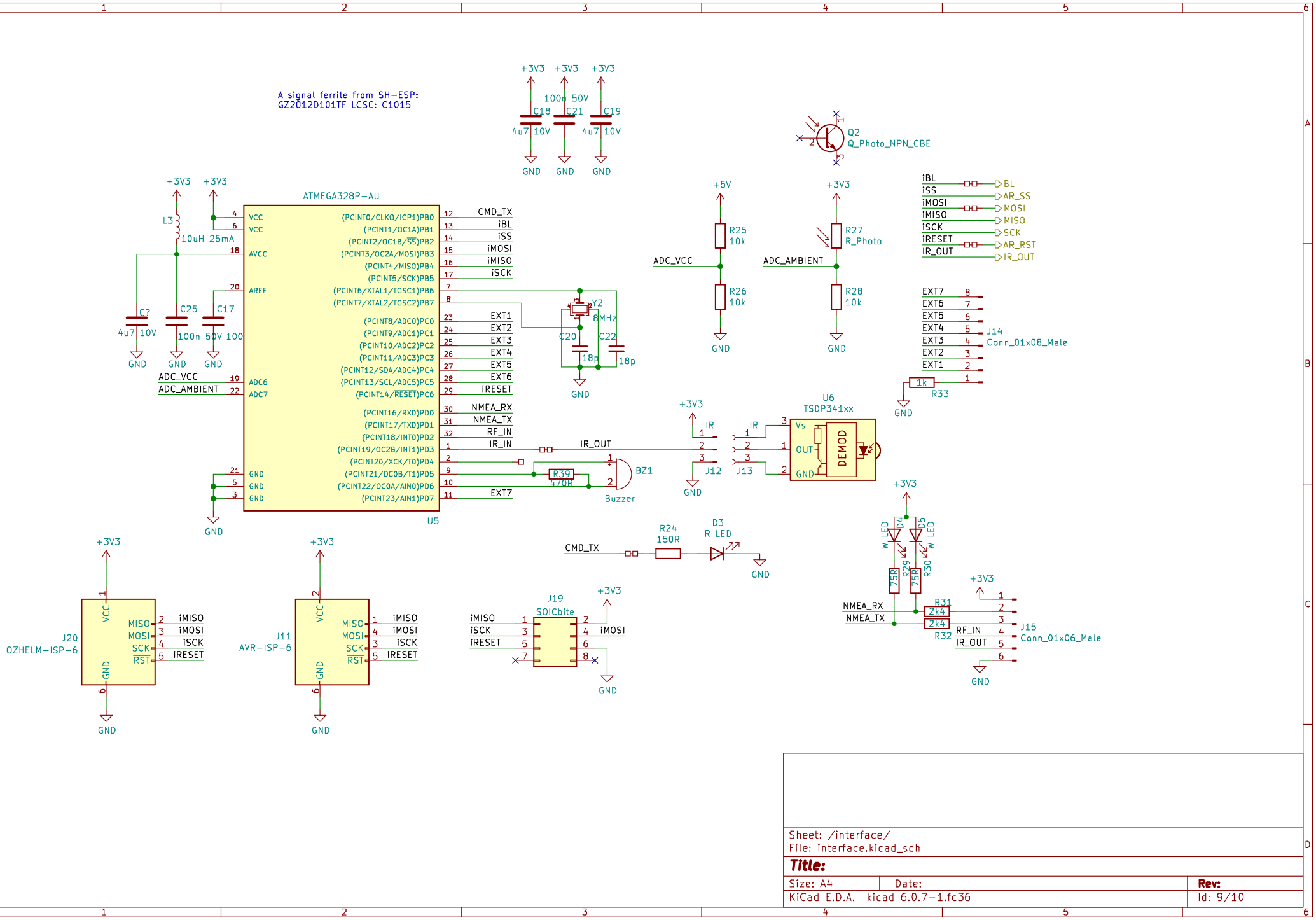
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 6.0.7-1.fc36		Id: 9/10



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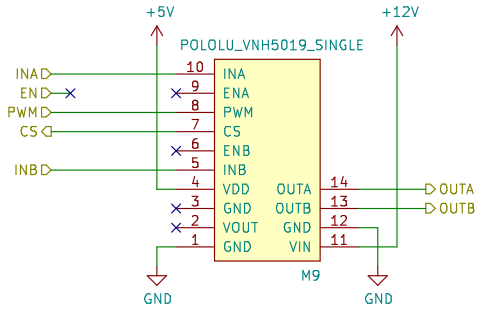
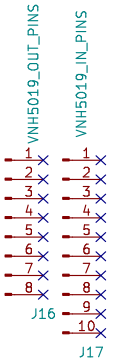
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 6.0.7-1.fc36		Id: 9/10

The VNH5019 chip has a pin called CP which can be used to drive an n-Channel MOSFET for reverse polarity protection. Use this when switching from the module to the chip.





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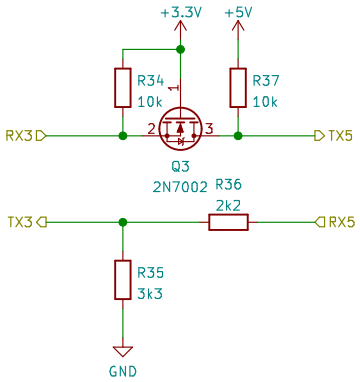
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 6.0.7-1.fc36		Id: 9/10



From: https://elinux.org/RPi_GPIO_Interface_Circuits#Classic_MOSFET_level_shifter

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Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 6.0.7-1.fc36		Id: 10/10