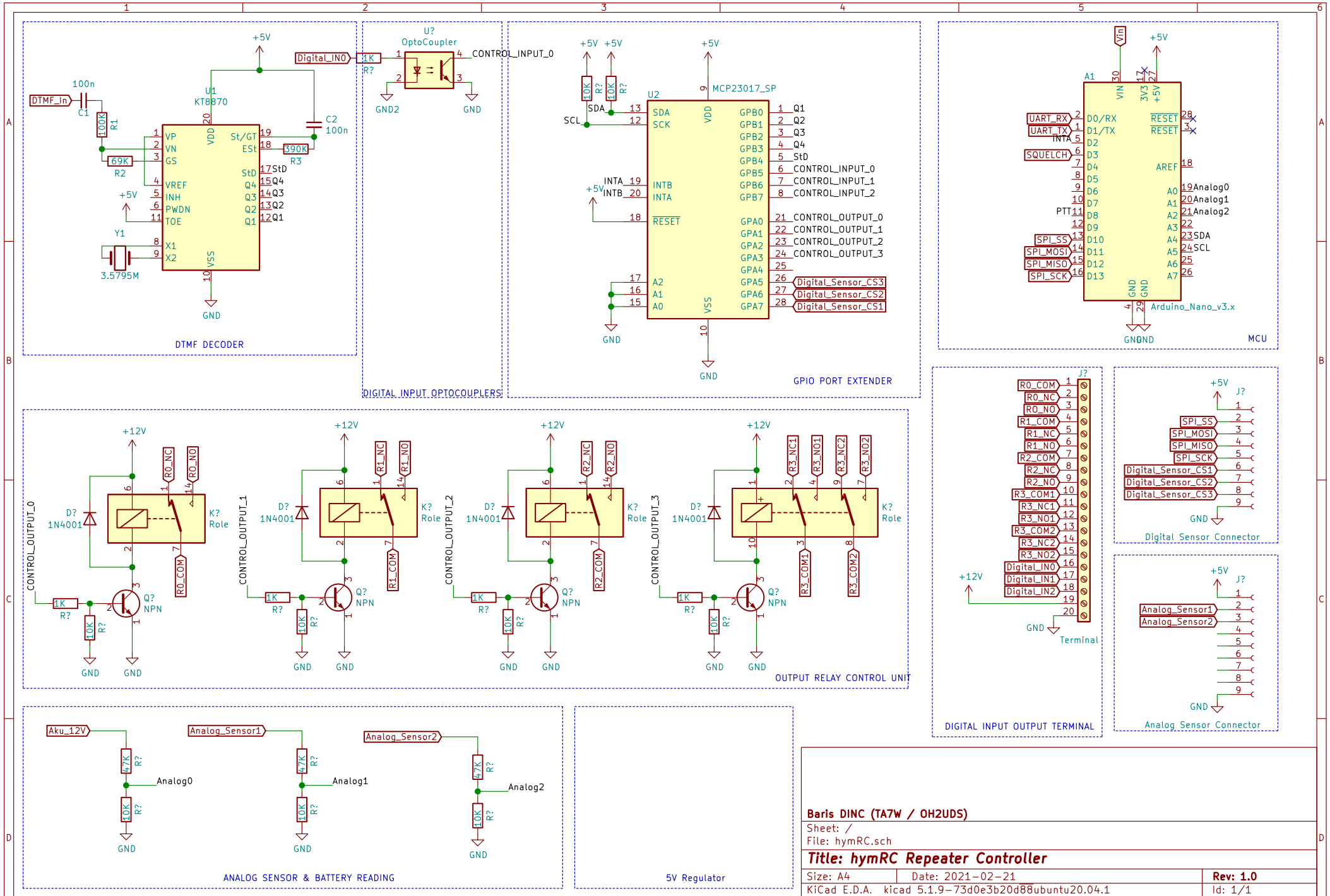
DTMF DECODER
U1
KT8870
DTMF_In
C1
100n
R1
100K
R2
69K
R3
390K
C2
100n
Y1
3.5795M
+5V
GND
DIGITAL INPUT OPTOCOUPLERS
U?
OptoCoupler
Digital_IN0
CONTROL_INPUT_0
GND2
GPIO PORT EXTENDER
U2
MCP23017_SP
SDA
SCL
INTA
INTB
RESET
CONTROL_INPUT_0
CONTROL_INPUT_1
CONTROL_INPUT_2
CONTROL_OUTPUT_0
CONTROL_OUTPUT_1
CONTROL_OUTPUT_2
CONTROL_OUTPUT_3
Digital_Sensor_CS3
Digital_Sensor_CS2
Digital_Sensor_CS1
MCU
A1
Arduino_Nano_v3.x
UART_RX
UART_TX
SQUELCH
PTT
SPI_SS
SPI_MOSI
SPI_MISO
SPI_SCK
Analog0
Analog1
Analog2
OUTPUT RELAY CONTROL UNIT
+12V
D?
1N4001
K?
Role
Q?
NPN
R0_COM
R0_NC
R0_NO
R1_COM
R1_NC
R1_NO
R2_COM
R2_NC
R2_NO
R3_COM1
R3_NC1
R3_NO1
R3_COM2
R3_NC2
R3_NO2
DIGITAL INPUT OUTPUT TERMINAL
J?
Terminal
Digital_IN0
Digital_IN1
Digital_IN2
Digital Sensor Connector
Analog Sensor Connector
Analog_Sensor1
Analog_Sensor2
ANALOG SENSOR & BATTERY READING
Aku_12V
47K
10K
5V Regulator
Baris DINC (TA7W / OH2UDS)
Sheet: /
File: hymRC.sch
Title: hymRC Repeater Controller
Size: A4
Date: 2021-02-21
Rev: 1.0
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu20.04.1
Id: 1/1