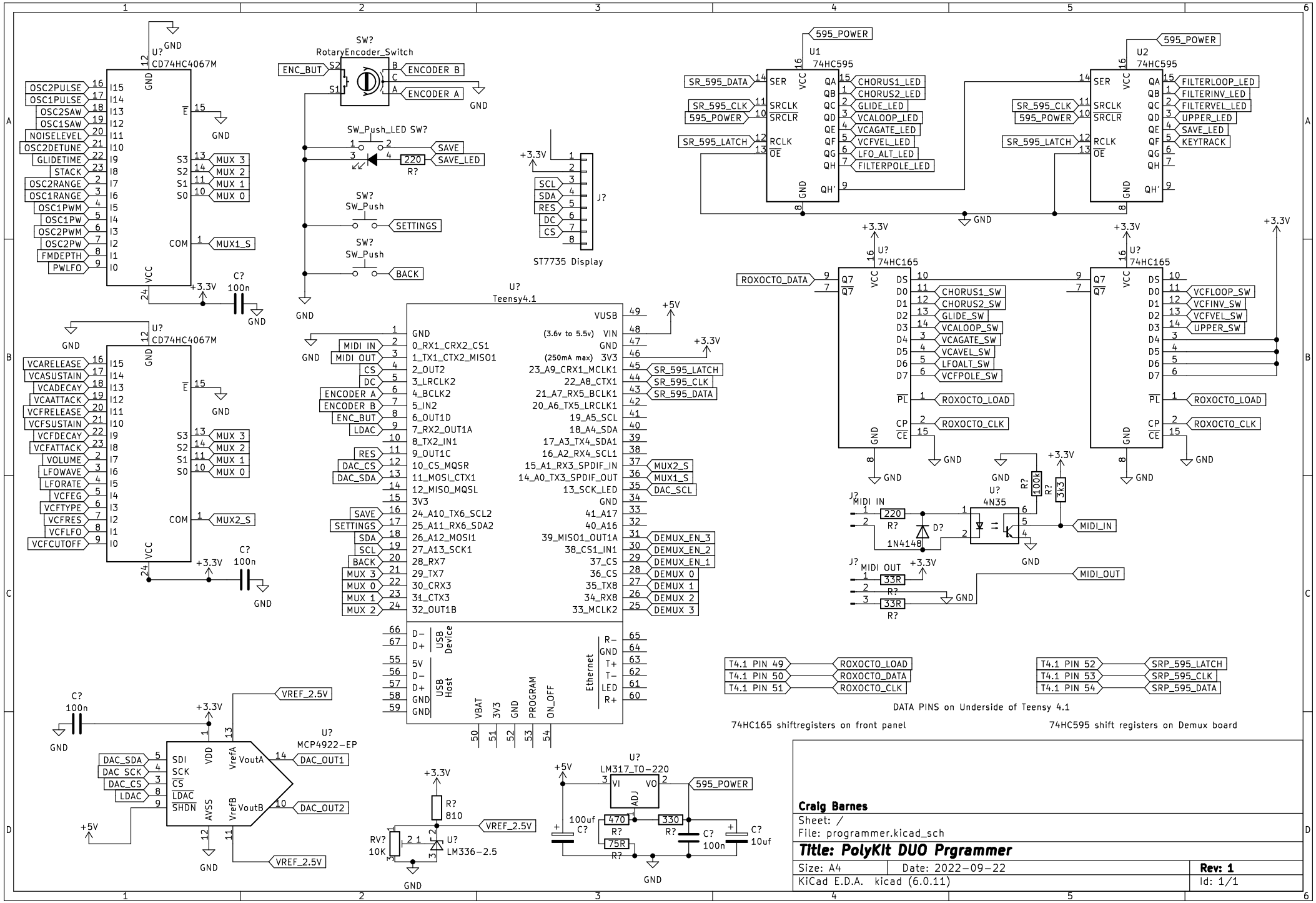
U? CD74HC4067M
OSC2PULSE
OSC1PULSE
OSC2SAW
OSC1SAW
NOISELEVEL
OSC2DETUNE
GLIDETIME
STACK
OSC2RANGE
OSC1RANGE
OSC1PWM
OSC1PW
OSC2PWM
OSC2PW
FMDEPTH
PWLFO
MUX 3
MUX 2
MUX 1
MUX 0
MUX1_S
C? 100n
+3.3V
GND
U? CD74HC4067M
VCARELEASE
VCASUSTAIN
VCADECAY
VCAATTACK
VCFRELEASE
VCFSUSTAIN
VCFDECAY
VCFATTACK
VOLUME
LFOWAVE
LFORATE
VCFEG
VCFTYPE
VCFRES
VCFLFO
VCFCUTOFF
MUX2_S
SW? RotaryEncoder_Switch
ENC_BUT
ENCODER B
ENCODER A
SW_Push_LED SW?
SAVE
SAVE_LED
220
R?
SW? SW_Push
SETTINGS
BACK
ST7735 Display
J?
SCL
SDA
RES
DC
CS
U? Teensy4.1
MIDI IN
MIDI OUT
ENCODER A
ENCODER B
ENC_BUT
LDAC
RES
DAC_CS
DAC_SDA
SAVE
SETTINGS
BACK
MUX 3
MUX 0
MUX 1
MUX 2
VUSB
+5V
(3.6v to 5.5v) VIN
(250mA max) 3V3
SR_595_LATCH
SR_595_CLK
SR_595_DATA
MUX2_S
MUX1_S
DAC_SCL
DEMUX_EN_3
DEMUX_EN_2
DEMUX_EN_1
DEMUX 0
DEMUX 1
DEMUX 2
DEMUX 3
USB Device
USB Host
Ethernet
VBAT
3V3
PROGRAM
ON_OFF
U1 74HC595
U2 74HC595
595_POWER
SR_595_DATA
SR_595_CLK
SR_595_LATCH
CHORUS1_LED
CHORUS2_LED
GLIDE_LED
VCALOOP_LED
VCAGATE_LED
VCFVEL_LED
LFO_ALT_LED
FILTERPOLE_LED
FILTERLOOP_LED
FILTERINV_LED
FILTERVEL_LED
UPPER_LED
SAVE_LED
KEYTRACK
U? 74HC165
ROXOCTO_DATA
ROXOCTO_LOAD
ROXOCTO_CLK
CHORUS1_SW
CHORUS2_SW
GLIDE_SW
VCALOOP_SW
VCAGATE_SW
VCAVEL_SW
LFOALT_SW
VCFPOLE_SW
VCFLOOP_SW
VCFINV_SW
VCFVEL_SW
UPPER_SW
U? 4N35
100k
3k3
1N4148
D?
33R
MIDI_IN
MIDI_OUT
T4.1 PIN 49
T4.1 PIN 50
T4.1 PIN 51
T4.1 PIN 52
T4.1 PIN 53
T4.1 PIN 54
SRP_595_LATCH
SRP_595_CLK
SRP_595_DATA
DATA PINS on Underside of Teensy 4.1
74HC165 shiftregisters on front panel
74HC595 shift registers on Demux board
VREF_2.5V
U? MCP4922-EP
SDI
SCK
CS
LDAC
SHDN
VDD
AVSS
VrefA
VrefB
VoutA
VoutB
DAC_OUT1
DAC_OUT2
DAC SCK
DAC_CS
810
RV? 10K
U? LM336-2.5
U? LM317_TO-220
VI
VO
ADJ
470
330
75R
100uf
10uf
Craig Barnes
Sheet: /
File: programmer.kicad_sch
Title: PolyKit DUO Prgrammer
Size: A4
Date: 2022-09-22
Rev: 1
KiCad E.D.A. kicad (6.0.11)
Id: 1/1