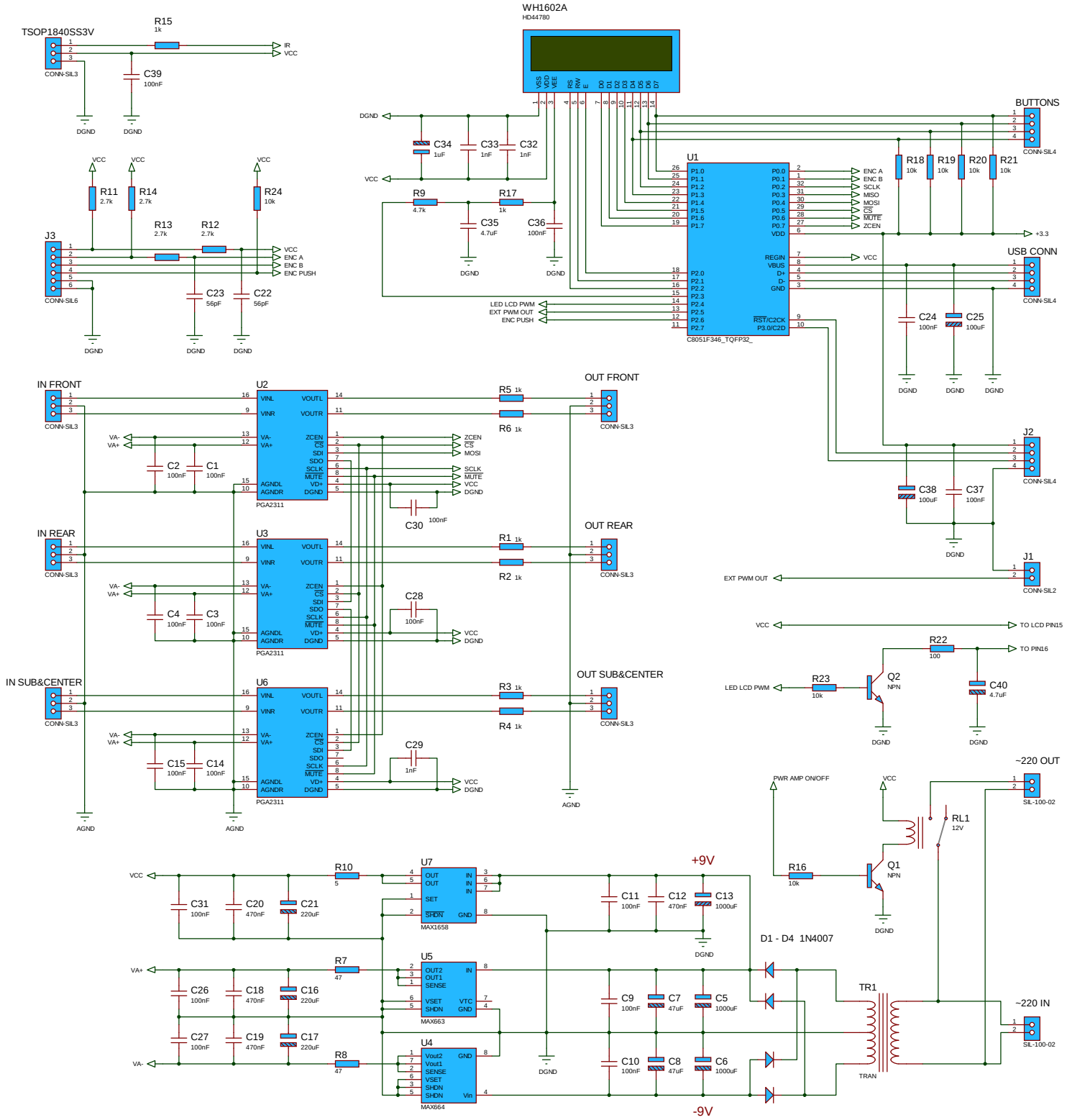
TSOP1840SS3V
CONN-SIL3
R15
1k
C39
100nF
IR
VCC
DGND
WH1602A
HD44780
VSS VDD VEE RS RW E D0 D1 D2 D3 D4 D5 D6 D7
C34
1uF
C33
1nF
C32
1nF
R9
4.7k
R17
1k
C35
4.7uF
C36
100nF
U1
C8051F346_TQFP32_
P1.0 P1.1 P1.2 P1.3 P1.4 P1.5 P1.6 P1.7
P2.0 P2.1 P2.2 P2.3 P2.4 P2.5 P2.6 P2.7
P0.0 P0.1 P0.2 P0.3 P0.4 P0.5 P0.6 P0.7
VDD
REGIN
VBUS
D+
D-
GND
RST/C2CK
P3.0/C2D
ENC A
ENC B
SCLK
MISO
MOSI
CS
MUTE
ZCEN
+3.3
LED LCD PWM
EXT PWM OUT
ENC PUSH
BUTTONS
CONN-SIL4
R18
10k
R19
10k
R20
10k
R21
10k
USB CONN
C24
100nF
C25
100uF
R11
2.7k
R14
2.7k
R24
10k
R13
2.7k
R12
2.7k
J3
CONN-SIL6
VCC
ENC A
ENC B
ENC PUSH
C23
56pF
C22
56pF
IN FRONT
CONN-SIL3
U2
PGA2311
VINL VOUTL VINR VOUTR VA- VA+ ZCEN CS SDI SDO SCLK MUTE VD+ AGNDL AGNDR DGND
R5 1k
R6 1k
OUT FRONT
CONN-SIL3
C2
100nF
C1
100nF
C30
100nF
ZCEN
CS
MOSI
SCLK
MUTE
VCC
DGND
J2
CONN-SIL4
C38
100uF
C37
100nF
IN REAR
CONN-SIL3
U3
PGA2311
R1 1k
R2 1k
OUT REAR
CONN-SIL3
C4
100nF
C3
100nF
C28
100nF
J1
CONN-SIL2
EXT PWM OUT
VCC
TO LCD PIN15
R22
100
TO PIN16
IN SUB&CENTER
CONN-SIL3
U6
PGA2311
R3 1k
R4 1k
OUT SUB&CENTER
CONN-SIL3
C15
100nF
C14
100nF
C29
1nF
AGND
LED LCD PWM
R23
10k
Q2
NPN
C40
4.7uF
~220 OUT
SIL-100-02
PWR AMP ON/OFF
R16
10k
Q1
NPN
RL1
12V
R10
5
U7
MAX1658
OUT OUT SET SHDN IN IN IN GND
C31
100nF
C20
470nF
C21
220uF
C11
100nF
C12
470nF
C13
1000uF
+9V
D1 - D4 1N4007
R7
47
U5
MAX663
OUT2 OUT1 SENSE VSET SHDN VTC GND
C26
100nF
C18
470nF
C16
220uF
C9
100nF
C7
47uF
C5
1000uF
TR1
TRAN
~220 IN
SIL-100-02
C27
100nF
C19
470nF
C17
220uF
R8
47
U4
MAX664
Vout2 Vout1 SENSE VSET SHDN SHDN GND Vin
C10
100nF
C8
47uF
C6
1000uF
-9V
VA+
VA-