J3
Conn_01x04_Female
+24V
+5V
GND
+5V
F1
Fuse
D1
B120-13-F
U1
MCP1825S
VI
VO
GND
C2
0.1uF
C3
4.7uF
+3.3V
R3
470R
D2
LED
GND
J4
Conn_01x04_Female
SCL_5V
SDA_5V
+5V
GND
+24V
+5V
D5
LED
R10
470R
R11
2.2K
GND
D4
B120-13-F
C1
2.2uF
+5V
2.2K
R8
2.2K
R9
SCL_5V
SDA_5V
Q4
BSS138
Q2
BSS138
+3.3V
2.2K
R6
2.2K
R7
SCL
SDA
U3
MK66FX1M0VLQ18-Teensy
VDD
VREG_OUT
VDD
VDD
VDD
VDD
VDD
VDD
ADC1_DM0
ADC1_DP0
VDDA
VDD
VREFH
VREF_OUT
VREFL
VSSA
USB0_DM
USB0_DP
PTA18
PTA19
XTAL32
EXTAL32
PTE6
USB1_DM
USB1_DP
USB1_VBUS
VREG_IN0
PTE5
PTE4
PTE3
PTE2
PTE1
PTE0
VBAT
RESET_B
PTA1
PTA3
PTA0
PTA2
USB1_VSS
VSS
VSS
VSS
VSS
VSS
VSS
VSS
VSS
VSS
23/A9-PTC2
22/A8-PTC1
21/A7-PTD6
20/A6-PTD5
19/A5-PTB2
18/A4-PTB3
17/A3-PTB1
16/A2-PTB0
15/A1-PTC0
14/A0-PTD1
13-PTC5
A22/DAC1-A1_SE23
A21/DAC0-A0_SE23
39/A20-PTA17
38/A19-PTC11
37/A18-PTC10
36/A17-PTC9
35/A16-PTC8
34/A15-PTE25
33/14-PTE24
32/A13-PTB11
31/A12-PTB10
30-PTB19
29-PTB18
28-PTA16
27-PTA15
26-PTA14
25-PTA5
24-PTE26
12-PTC7
11-PTC6
10-PTC4
9-PTC3
8-PTD3
7-PTD2
6-PTD4
5-PTD7
4-PTA13
3-PTA12
2-PTD0
1-PTB17
0-PTB16
40-PTA28
41-PTA29
42-PTA26
43-PTB20
44-PTB22
45-PTB23
46-PTB21
47-PTD8
48-PTD9
49-PTB4
50-PTB5
51-PTD14
52-PTD13
53-PTD12
54-PTD15
55-PTD11
56-PTE10
57-PTE11
C14
2.2uF
FB2
600
C5
2.2uF
C6
2.2uF
C7
2.2uF
C8
2.2uF
C9
2.2uF
C12
2.2uF
C13
2.2uF
C15
2.2uF
C4
2.2uF
FB1
600
C11
0.1uF
R4
470R
Y1
15Mhz
Y2
32.768Khz
R1
33R
R2
33R
J2
B1HSB6 USB
VBUS
D+
D-
Shield
GND
D+
D-
R12
0R
R16
0R
R14
0R
C10
0.1uF
J8
Conn_01x12_Female
SCL
SDA
D3
LED
R5
470R
J7
Conn_01x12_Female
GND
J5
Conn_01x14_Female
+3.3V
R17
1k
R18
1k
GND
Hardware Revision Identification:
V1.0 = N/A
V1.1 = 1.65V
J6
Conn_01x12_Female
J1
Conn_01x04_Female
RESET
PROG
GND
3.3V
U2
MKL04Z32VLC4
VDD
VREFH
PTA0/IRQ_0/LLWU_P7
PTA1/IRQ_1/LPTMR0_ALT1
PTA2
PTA3
PTA4/LLWU_P0
PTA5/LLWU_P1/RTC_CLK_IN
PTA6/LLWU_P2
PTA7/IRQ_7/LLWU_P3
PTA8
PTA9
PTA10/IRQ_12
PTA11/IRQ_13
PTA12/IRQ_17/LPTMR0_ALT2
PTA13
PTB0/IRQ_8/LLWU_P4
PTB1/IRQ_9
PTB2/IRQ_10/LLWU_P5
PTB3/IRQ_14
PTB4/IRQ_15/LLWU_P6
PTB5/IRQ_16
PTB6/IRQ_2/LPTMR0_ALT3
PTB7/IRQ_3
PTB8
PTB9
PTB10
PTB11
PTB12
PTB13
VSS
VREFL
SW1
Program
GND
+3.3V
VTref
RESET
SWDCLK/TCK
SWDIO/TMS
SWO/TDO
NC/TDI
GND
GNDDetect
J9
Conn_ARM_JTAG_SWD_10
GND
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole

Sheet: /		
File: Driver V1.0.sch		
Title:		
Size: A2	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.4-0-10_14)		Id: 1/1