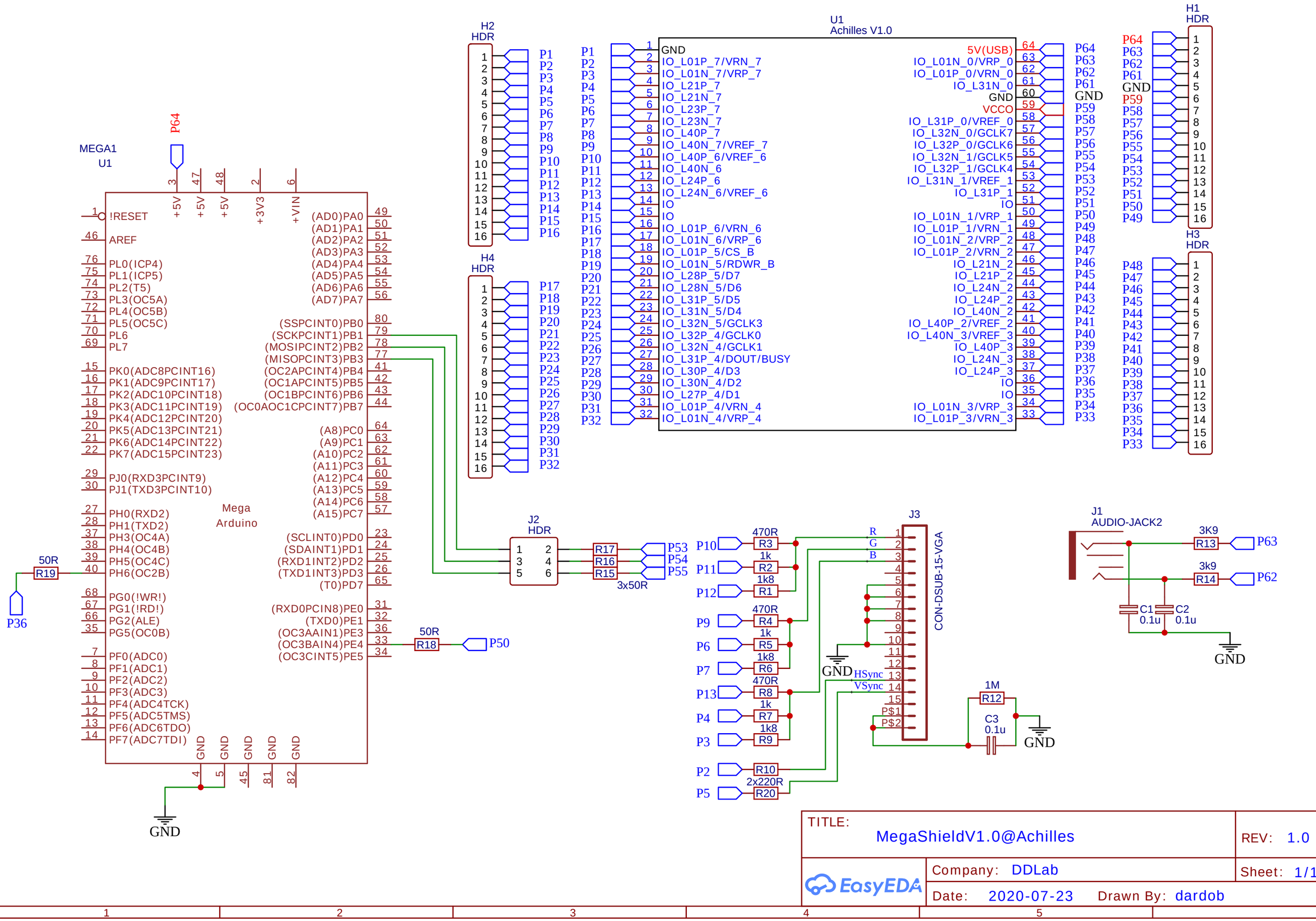

MEGA1
U1
P64
3
47
48
2
6
+5V
+5V
+5V
+3V3
+VIN
1 !RESET
46 AREF
76 PL0(ICP4)
75 PL1(ICP5)
74 PL2(T5)
73 PL3(OC5A)
72 PL4(OC5B)
71 PL5(OC5C)
70 PL6
69 PL7
15 PK0(ADC8PCINT16)
16 PK1(ADC9PCINT17)
17 PK2(ADC10PCINT18)
18 PK3(ADC11PCINT19)
19 PK4(ADC12PCINT20)
20 PK5(ADC13PCINT21)
21 PK6(ADC14PCINT22)
22 PK7(ADC15PCINT23)
29 PJ0(RXD3PCINT9)
30 PJ1(TXD3PCINT10)
27 PH0(RXD2)
28 PH1(TXD2)
37 PH3(OC4A)
38 PH4(OC4B)
39 PH5(OC4C)
40 PH6(OC2B)
68 PG0(!WR!)
67 PG1(!RD!)
66 PG2(ALE)
35 PG5(OC0B)
7 PF0(ADC0)
8 PF1(ADC1)
9 PF2(ADC2)
10 PF3(ADC3)
11 PF4(ADC4TCK)
12 PF5(ADC5TMS)
13 PF6(ADC6TDO)
14 PF7(ADC7TDI)
Mega
Arduino
49 (AD0)PA0
50 (AD1)PA1
51 (AD2)PA2
52 (AD3)PA3
53 (AD4)PA4
54 (AD5)PA5
55 (AD6)PA6
56 (AD7)PA7
80 (SSPCINT0)PB0
79 (SCKPCINT1)PB1
78 (MOSIPCINT2)PB2
77 (MISOPCINT3)PB3
41 (OC2APCINT4)PB4
42 (OC1APCINT5)PB5
43 (OC1BPCINT6)PB6
44 (OC0AOC1CPCINT7)PB7
64 (A8)PC0
63 (A9)PC1
62 (A10)PC2
61 (A11)PC3
60 (A12)PC4
59 (A13)PC5
58 (A14)PC6
57 (A15)PC7
23 (SCLINT0)PD0
24 (SDAINT1)PD1
25 (RXD1INT2)PD2
26 (TXD1INT3)PD3
65 (T0)PD7
31 (RXD0PCIN8)PE0
32 (TXD0)PE1
36 (OC3AAIN1)PE3
33 (OC3BAIN4)PE4
34 (OC3CINT5)PE5
GND
GND
GND
GND
GND
4
5
45
81
82
50R
R19
P36
50R
R18
P50
H2
HDR
1 P1
2 P2
3 P3
4 P4
5 P5
6 P6
7 P7
8 P8
9 P9
10 P10
11 P11
12 P12
13 P13
14 P14
15 P15
16 P16
H4
HDR
1 P17
2 P18
3 P19
4 P20
5 P21
6 P22
7 P23
8 P24
9 P25
10 P26
11 P27
12 P28
13 P29
14 P30
15 P31
16 P32
J2
HDR
1 2
3 4
5 6
R17
R16
R15
3x50R
P53
P54
P55
U1
Achilles V1.0
1 GND
2 IO_L01P_7/VRN_7
3 IO_L01N_7/VRP_7
4 IO_L21P_7
5 IO_L21N_7
6 IO_L23P_7
7 IO_L23N_7
8 IO_L40P_7
9 IO_L40N_7/VREF_7
10 IO_L40P_6/VREF_6
11 IO_L40N_6
12 IO_L24P_6
13 IO_L24N_6/VREF_6
14 IO
15 IO
16 IO_L01P_6/VRN_6
17 IO_L01N_6/VRP_6
18 IO_L01P_5/CS_B
19 IO_L01N_5/RDWR_B
20 IO_L28P_5/D7
21 IO_L28N_5/D6
22 IO_L31P_5/D5
23 IO_L31N_5/D4
24 IO_L32N_5/GCLK3
25 IO_L32P_4/GCLK0
26 IO_L32N_4/GCLK1
27 IO_L31P_4/DOUT/BUSY
28 IO_L30P_4/D3
29 IO_L30N_4/D2
30 IO_L27P_4/D1
31 IO_L01P_4/VRN_4
32 IO_L01N_4/VRP_4
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31 P32
64 5V(USB)
63 IO_L01N_0/VRP_0
62 IO_L01P_0/VRN_0
61 IO_L31N_0
60 GND
59 VCCO
58 IO_L31P_0/VREF_0
57 IO_L32N_0/GCLK7
56 IO_L32P_0/GCLK6
55 IO_L32N_1/GCLK5
54 IO_L32P_1/GCLK4
53 IO_L31N_1/VREF_1
52 IO_L31P_1
51 IO
50 IO_L01N_1/VRP_1
49 IO_L01P_1/VRN_1
48 IO_L01N_2/VRP_2
47 IO_L01P_2/VRN_2
46 IO_L21N_2
45 IO_L21P_2
44 IO_L24N_2
43 IO_L24P_2
42 IO_L40N_2
41 IO_L40P_2/VREF_2
40 IO_L40N_3/VREF_3
39 IO_L40P_3
38 IO_L24N_3
37 IO_L24P_3
36 IO
35 IO
34 IO_L01N_3/VRP_3
33 IO_L01P_3/VRN_3
P64 P63 P62 P61 GND P59 P58 P57 P56 P55 P54 P53 P52 P51 P50 P49 P48 P47 P46 P45 P44 P43 P42 P41 P40 P39 P38 P37 P36 P35 P34 P33
H1
HDR
P64 1
P63 2
P62 3
P61 4
GND 5
P59 6
P58 7
P57 8
P56 9
P55 10
P54 11
P53 12
P52 13
P51 14
P50 15
P49 16
H3
HDR
P48 1
P47 2
P46 3
P45 4
P44 5
P43 6
P42 7
P41 8
P40 9
P39 10
P38 11
P37 12
P36 13
P35 14
P34 15
P33 16
J3
CON-DSUB-15-VGA
R 1
G 2
B 3
4
5
6
7
8
9
10
11
12
HSync 13
VSync 14
15
P$1
P$2
GND
P10 470R R3
P11 1k R2
P12 1k8 R1
P9 470R R4
P6 1k R5
P7 1k8 R6
P13 470R R8
P4 1k R7
P3 1k8 R9
P2 R10 2x220R
P5 R20
1M R12
C3 0.1u
GND
J1
AUDIO-JACK2
3K9 R13 P63
3k9 R14 P62
C1 0.1u
C2 0.1u
GND
TITLE:
MegaShieldV1.0@Achilles
REV: 1.0
Company: DDLab
Sheet: 1/1
Date: 2020-07-23
Drawn By: dardob
EasyEDA