J2
AVR-JTAG-10

GND 2 GND
VREF 4
VCC 7

TDI 9
TDO 3
TMS 5
TCK 1
TRST 8
SRST 6

J1
UJ20-C-H-G-MSMT-4-P16-TR

1 MH1   DN1 A7
2 MH2   SBU1 A8
3 MH3   GND_2 B1
4 MH4   VBUS_2 B4
A1 GND_1   CC2 B5
A4 VBUS_1   DP2 B6
A5 CC1   DN2 B7
A6 DP1   SBU2 B8

GND

R4
5.1

R3
5.1

GND

5V

GND

C9
C

GND

VR1
PEC11R-4220F-S0024

MH1 MH1   MH2 MH2
A1   A C B B1

C1   C2
C   C

GND

AVCC_2 44
GND_4 43
AREF 42
PF0_(ADC0) 41
PF1_(ADC1) 40
PF4_(ADC4/TCK) 39
PF5_(ADC5/TMS) 38
PF6_(ADC6/TD0) 37
PF7_(ADC7/TDI) 36
GND_3 35
VCC_2 34

IC1
ATMEGA32U4-AU

1 (INT.6/AIN0)_PE6
2 UVCC
3 D-
4 D+
5 UGND
6 UCAP
7 VBUS
8 (SS/PCINT0)_PB0
9 (PCINT1/SCLK)_PB1
10 (PDI/PCINT2/MOSI)_PB2
11 (PDO/PCINT3/MISO)_PB3

PE2_(HWB) 33
PC7_(ICP3/CLK0/OC)4A 32
PC6_(OC3A/OC4A) 31
PB6_(PCINT6/OC1B/OC4B/ADC) 30
PB5_(PCINT5/OC1A/OC4B/ADC) 29
PB4_(PCINT4/ADC11) 28
PD7_(T0/OC4D/ADC10) 27
PD6_(T1/OC4D/ADC9) 26
PD4_(ICP1/ADC8) 25
AVCC_1 24
GND_2 23

R1
R2
22

GND

C8
C

C5
0.1uF

GND

C11
C
GND

(PCINT7/OC0A/OC1C/RTS)_PB7
RESET
VCC_1
GND_1
XTAL2
XTAL1
(OC0B/SCL/INT0)_PD0
(SDA/INT1)_PD1
(RXD1/INT2)_PD2
(TXD1/INT3)_PD3
(XCK1/CTS)_PD5

12 13 14 15 16 17 18 19 20 21 22

VR2
PEC11R-4220F-S0024

MH1 MH1   MH2 MH2
A1   A C B B1

C3   C4
C   C

GND

R5
10k

SW1
SW_Push_Dual

1 2
3 4

GND

C10
C

GND

Y1
Crystal

C6   C7
12pF 12pF

GND GND

GND

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