Hatswitch Buttons

ROW1 — D1 LL4148 (S1), D8 LL4148 (S11), D15 LL4148 (S18), D22 LL4148 (S25)
ROW2 — D2 LL4148 (S2), D9 LL4148 (S10), D16 LL4148 (S17), D23 LL4148 (S24)
ROW3 — D3 LL4148 (S3), D10 LL4148 (S8), D17 LL4148 (S15), D24 LL4148 (S22)
ROW4 — D4 LL4148 (S4), D11 LL4148 (S9), D18 LL4148 (S16), D25 LL4148 (S23)
ROW5 — D5 LL4148 (S5), D12 LL4148 (S12), D19 LL4148 (S19), D26 LL4148 (S26)
ROW6 — D6 LL4148 (S6), D13 LL4148 (S13), D20 LL4148 (S20), D27 LL4148 (S27)
ROW7 — D7 LL4148 (S7), D14 LL4148 (S14), D21 LL4148 (S21), D28 LL4148 (S28)

MOSI/COL1
MISO/COL2
SCK/COL3
COL4

VCC
C6 10u
R3 2k2
K2 USB-BU B: +5V, Data-, Data+, GND
R4 4k7
D29 3.3V
D30 3.3V
Data-
Data+

K1 ISP: MISO/COL2 (1-2) MOSI/COL1, SCK/COL3 (3-4), Reset (5-6)
VCC

AVCC

JP1 — ADC0
JP2 — ADC1
JP3 — ADC2
JP4 — ADC3
JP5 — ADC4
JP6 — ADC5
JP7 — ADC6
JP8 — ADC7

VCC
R5 10k
Reset
C7 10n

IC1 ATmega8-16AI TQFP Package
29 PC6(/RESET)
21 AGND
20 AREF
18 AVCC
7 PB6(XTAL1/TOSC1)
8 PB7(XTAL2/TOSC2)
3 GND
5 GND
4 VCC
6 VCC

23 PC0(ADC0) — ADC0
24 PC1(ADC1) — ADC1
25 PC2(ADC2) — ADC2
26 PC3(ADC3) — ADC3
27 PC4(ADC4/SDA) — ADC4
28 PC5(ADC5/SCL) — ADC5
19 ADC6 — ADC6
22 ADC7 — ADC7

30 PD0(RXD) — ROW1
31 PD1(TXD) — ROW2
32 PD2(INT0)
1 PD3(INT1) — ROW4
2 PD4(XCK/T0) — ROW5
9 PD5(T1) — ROW6
10 PD6(AIN0) — ROW7
11 PD7(AIN1) — COL4

12 PB0(ICP) — R1 82 — Data-
13 PB1(OC1A) — R2 82 — Data+
14 PB2(SS/OC1B) — ROW3
15 PB3(MOSI/OC2) — MOSI/COL1
16 PB4(MISO) — MISO/COL2
17 PB5(SCK) — SCK/COL3

AVCC
L1 10µH
Q1 12MHZ
C4 27p
C5 27p
C2 100n
C1 100n
C3 100n
VCC