DEVBOARD ATMEGA16 (71520501)

X2 MKDS3-2 +12V GND
X3 USB TYPE B — Vcc 1 +5.0V, D- 2, D+ 3, GND 4 GND, CASE 5

DA1 LM7805 IN OUT GND
+12V C2 100u-16V GND C4 100u-16V +5.0V

SB2, SB3, SB1
X7 SWD3-2
R4 4k7, R5 4k7, R6 4k7

+5.0V C9 u10 C10 u10 C11 u10 C12 u10 GND

PLS-6 X14 +5.0V GND

TP1
PLS-R2 X4 — R1 1k0 — C1 1u0 — GND GND
PLS-R2 X6 — GND

DD2 ATmega16
PB0 1, PB1 2, PB2 3, PB3 4, PB4 5, PB5 6 MOSI, PB6 7 MISO, PB7 8 SCK
RESET 9, VCC 10, GND 11, XTAL2 12, XTAL1 13
PD0 14, PD1 15, PD2 16, PD3 17, PD4 18, PD5 19, PD6 20, PD7 21
PA0 40, PA1 39, PA2 38, PA3 37, PA4 36, PA5 35, PA6 34, PA7 33
AREF 32, GND 31, AVCC 30
PC7 29, PC6 28, PC5 27, PC4 26, PC3 25, PC2 24, PC1 23, PC0 22

X9 SWD3-2, X10 SWD3-2
R17...21 k24, R18 k24, R19 k24, R20 k24, R21 k24, R22 k24, R23 k24, R24 k24

HL1 E40561-I — A 11, B 7, C 4, D 2, E 1, F 10, G 5, DP 3
HG1 12, HG2 9, HG3 8, HG4 6

RESET SB4 GND, R7 4k7 +5.0V, C8 u10, +5.0V GND, GND GND

Q1 16 MHz, C6 15p, C7 15p GND

VT1 BC337-40, VT2 BC337-40, VT3 BC337-40, VT4 BC337-40
R25 1k0, R26 1k0, R27 1k0, R28 1k0
R29 k47 VD1 L-36BHD, R30 k47 VD2 L-36BHD, R31 k47 VD3 L-36BHD, R32 k47 VD4 L-36BHD
GND

X5 PLS-R4 — 1, 2, 3, 4 — +5.0V GND

S1 RE1201XE1-H01 — A, B, C, D, E PB4

R2 4k7, R3 4k7, C3 1n0, C5 1n0, GND

X1 NX2500-05 — COM, 1,2,3,4,5
DD1 ULN2003 — 1C 16, 2C 15, 3C 14, 4C 13, 5C 12, 6C 11, 7C 10, COM 9
1B 1, 2B 2, 3B 3, 4B 4, 5B 5, 6B 6, 7B 7, E 8

R8 4k7, R9 4k7, R10 4k7, R11 4k7 +5.0V

X8 PLS-R3 — +12V 1, 2, +5.0V 3
COM GND

R16 4k7, R33 4k7 +5.0V
X11 BH-10 — +5.0V 2, SCK 4, MOSI 6, MISO 8, 10 — 1,3,5,7,9 GND
X12 BH-10 — MOSI 2, RESET 6, SCK 8, MISO 10 +5.0V GND
X13 PLS-R4 — 1, 2, 3, 4 GND

J1 J8 J15 J23
J2 J9 J16 J24
J3 J10 J17 J25
J4 J11 J18 J26
J5 J12 J19 J27
J6 J13 J20 J28
J7 J14 J21 J29
J22 J30

P1: AXIA.758715.205