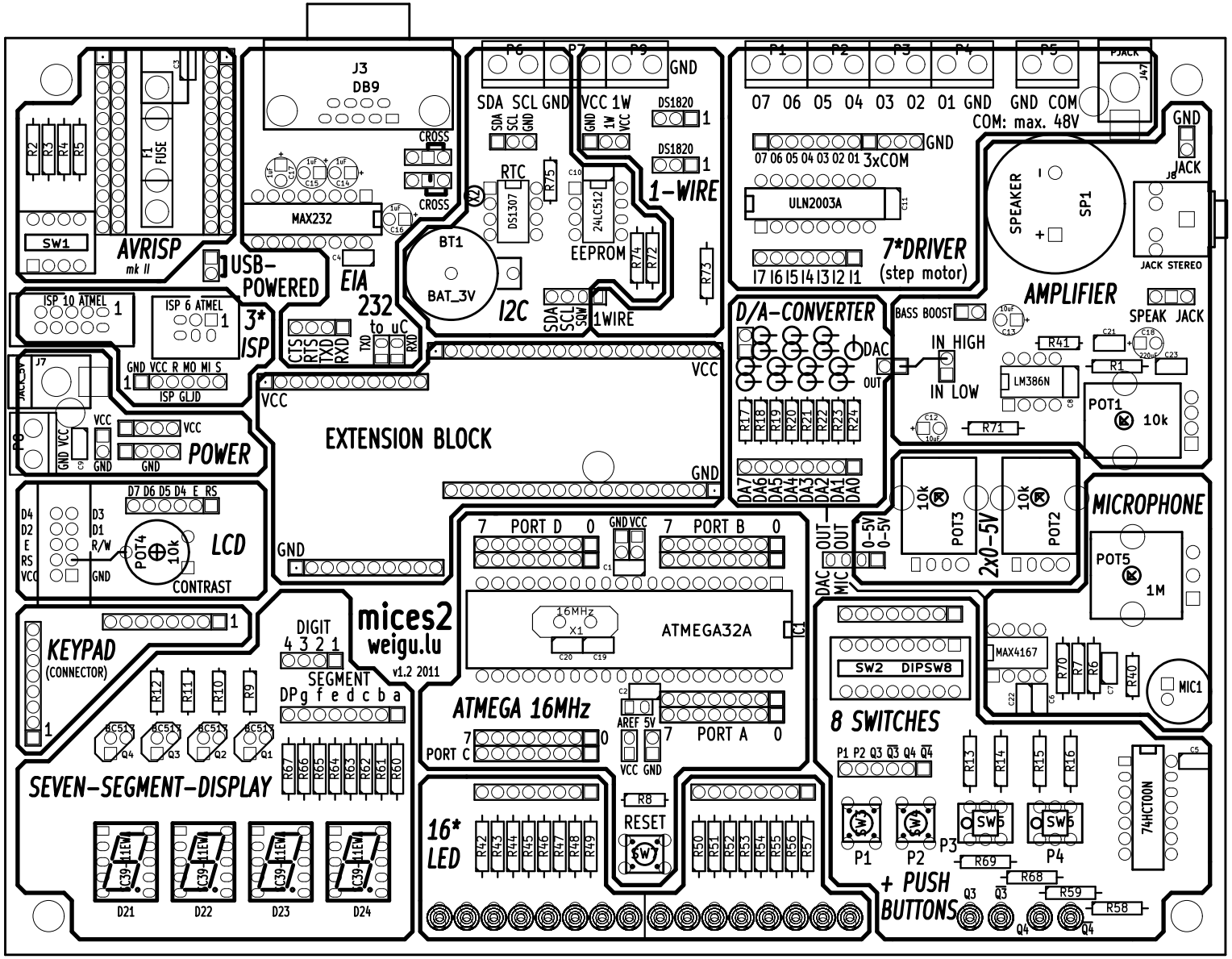

AVRISP
mk II
SW1
F1 FUSE
R2 R3 R4 R5
J3
DB9
MAX232
CROSS
USB-POWERED
EIA 232
to uC
CTS RTS TXD RXD
TXD RXD
ISP 10 ATMEL
ISP 6 ATMEL
3* ISP
GND VCC R MO MI S
ISP GLJD
J7
P8
POWER
VCC
GND
EXTENSION BLOCK
D7 D6 D5 D4 E RS
D4 D2 E RS VCC
D3 D1 R/W
POT4 10k
LCD
CONTRAST
KEYPAD
(CONNECTOR)
DIGIT
4 3 2 1
SEGMENT
DP g f e d c b a
mices2
weigu.lu
v1.2 2011
R12 R11 R10 R9
BC517 Q4 Q3 Q2 Q1
R67 R66 R65 R64 R63 R62 R61 R60
SEVEN-SEGMENT-DISPLAY
C39 11EW
D21 D22 D23 D24
P6 P7 P9
SDA SCL GND
VCC 1W
DS1820
RTC
DS1307
R75
24LC512
EEPROM
R74 R72
R73
1-WIRE
BT1
BAT_3V
I2C
SDA SCL SQW
1WIRE
P1 P2 P3 P4 P5
07 06 05 04 03 02 01 GND
GND COM
COM: max. 48V
PJACK
J47
07 06 05 04 03 02 01 3xCOM
ULN2003A
I7 I6 I5 I4 I3 I2 I1
7*DRIVER
(step motor)
SPEAKER
SP1
GND
JACK
J8
JACK STEREO
AMPLIFIER
SPEAK JACK
BASS BOOST
IN HIGH
IN LOW
LM386N
R41
R1
POT1 10k
R71
D/A-CONVERTER
DAC
OUT
R17 R18 R19 R20 R21 R22 R23 R24
DA7 DA6 DA5 DA4 DA3 DA2 DA1 DA0
OUT
0-5V
POT3 10k
POT2 10k
2x0-5V
MICROPHONE
POT5 1M
7 PORT D 0
GND VCC
7 PORT B 0
16MHz
X1
ATMEGA32A
IC1
ATMEGA 16MHz
PORT C
AREF 5V
PORT A
VCC GND
16* LED
R42 R43 R44 R45 R46 R47 R48 R49
R8
RESET
SW7
R50 R51 R52 R53 R54 R55 R56 R57
SW2 DIPSW8
8 SWITCHES
P1 P2 Q3 Q3 Q4 Q4
MAX4167
R70 R7 R6 R40
MIC1
R13 R14 R15 R16
74HCT00N
SW3 SW4 SW5 SW6
P1 P2 P3 P4
R69 R68 R59 R58
+ PUSH BUTTONS
Q3 Q3 Q4 Q4