HW REV. 1.12

Ready for PIC (DIP28) Schematics
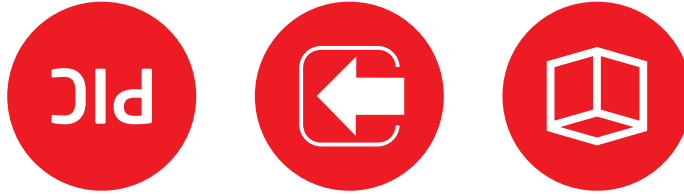
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SCHEMATICS

Ready™ for PIC®

with
DIP28
socket

We present you with a complete color schematics for Ready™ for PIC® development board.
We want you to know what your board is consisted of and how it actually works.

MikroElektronika
DEVELOPMENT TOOLS | COMPILERS | BOOKS

RC7-RX
RC6-TX

J2
J3

U3
1 TXD   OSCO 28
2 DTR#   OSCI 27
3 RTS#   TEST 26
4 VCCIO   AGND 25
5 RXD   NC 24
6 RI#   CBUS0 23   RX-LED
7 GND   CBUS1 22   TX-LED
8 NC   GND 21
9 DSR#   VCC 20   VCC-FTDI
10 DCD#   RESET# 19
11 CTS#   GND 18
12 CBUS4   3V3OUT 17
13 CBUS2   USBDM 16
14 CBUS3   USBDP 15

FT232RL
FT232RL

VCC VCC VCC-5V VCC-USB
R3 2K2 R4 2K2
LD2 LD3
D1 MBRS140T3

CN1
VCC 1
USBDM D- 2
USBDP D+ 3
GND 4
USB B

FP1 FERRITE

C8 100nF
C7 100nF

VCC-FTDI VCC VCC-FTDI
C5 100nF C6 100nF E3 10uF

CN36
RA0   RA1
RA2   RA3
RA4   RA5
VCC

CN37
RB0   RB1
RB2   RB3
RB4   RB5
RB6   RB7
VCC

MCLR
VCC
R1 10K
C3 100nF
T1
RESET

VCC   VCC-MCU
CN5
RB6-MCU 3   RB6
RB7-MCU 5   RB7
MCLR-MCU 7   MCLR
9   10

mikroProg
CONNECTOR

CN38
RC0   RC1
RC2   RC3-SCK
RC4-SDI   RC5-SDO
RC6-TX   RC7-RX
VCC

CN39
VCC

VCC-MCU VCC-MCU
C4 100nF C10 100nF

VCC-3.3   VCC-5V

RA0   RB0
RA1   RB1
RA2   RB2
RA3   RB3
RA5   RB4
           RB5
           RB6
           RB7
           RC0
           RC1
           RC2
           RC3-SCK
           RC4-SDI
           RC5-SDO
           RC6-TX
RA4   RC7-RX
           MCLR
           RB0
           RB1
           RB2
           RB3
           RB4
           RB5
           RB6
           RB7
PROTO AREA   VCC

DIP 28
VCC-MCU
U4
MCLR-MCU 1   28 RB7-MCU
RA0 2   27 RB6-MCU
RA1 3   26 RB5
RA2 4   25 RB4
RA3 5   24 RB3
RA4 6   23 RB2
RA5 7   22 RB1
8   21 RB0
OSC1 9   20
OSC2 10   19
RC0 11   18 RC7-RX
RC1 12   17 RC6-TX
RC2 13   16 RC5-SDO
RC3-SCK 14   15 RC4-SDI

C1 22pF
8 MHz X1
C2 22pF

R6 27
R5 27

3.3V VOLTAGE REGULATOR

VCC VCC-3.3
J1   VCC-5V

REG1
1 GND Vout 2 VCC-3.3
3 Vin
MC33269DT3.3
VCC-5V
E1 10uF
E2 10uF

VCC-5V
R2 2K2
LD1 POWER

5V SWITCHING POWER SUPPLY
VCC-5V
L1 220uH
E5 330uF/35V
D6 MBRS140T3

U2
1 SWC   DRVC 8
2 SWE   IPK 7
3 CT   VIN 6
4 GND   CMPR 5
MC34063A

C9 220pF
R10 0.22

VCC-EXT

D4 1N4007   D2 1N4007
D5 1N4007   D3 1N4007

CN2
CN46

VCC-5V
R7 3K
R8 1K

E4 330uF/35V