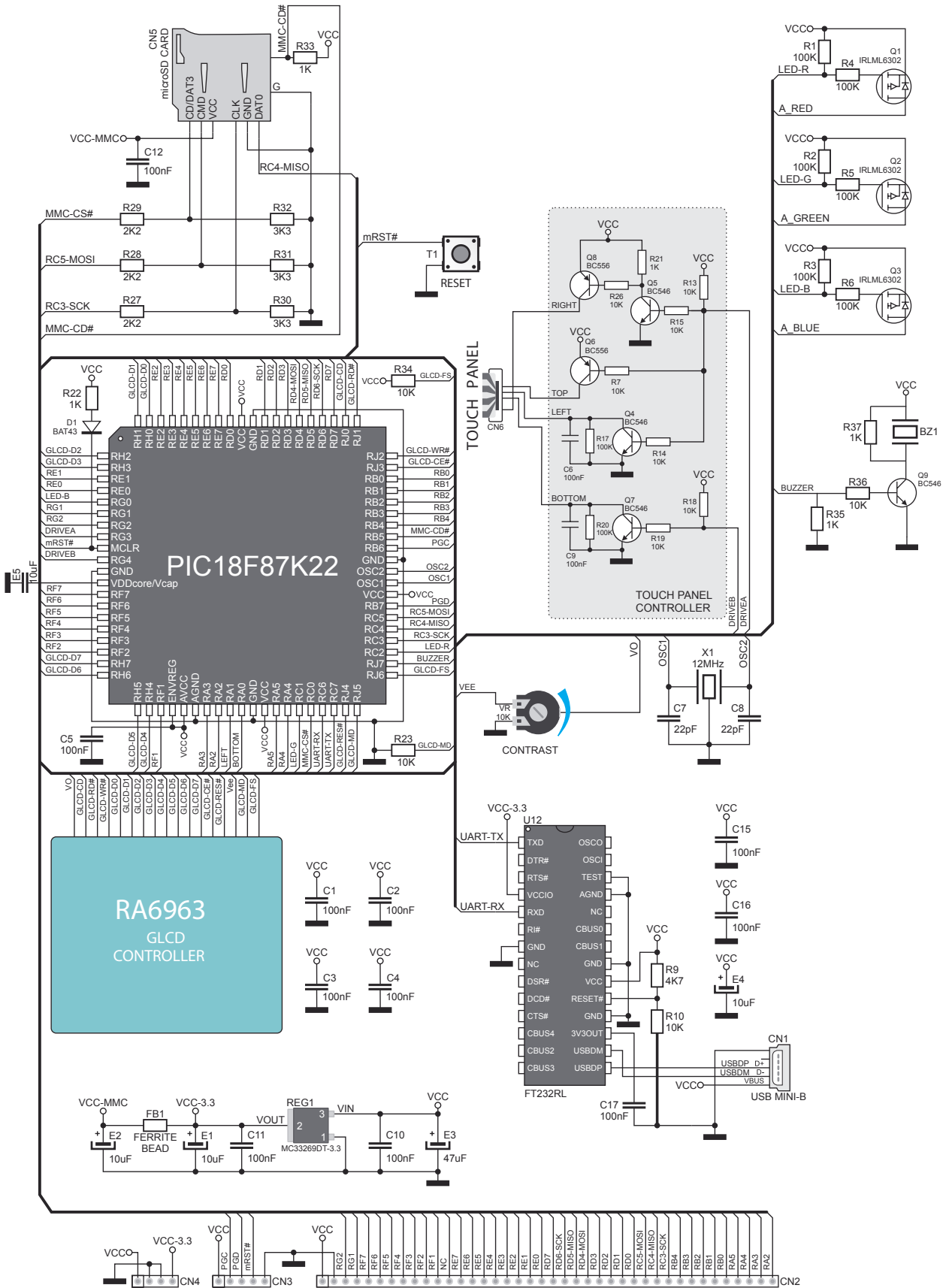# Smart**GLCD**
240x128

We present you with a complete color schematics for SmartGLCD 240x128 development board. We want you to know what your board is consisted of and how it actually works.

MikroElektronika
DEVELOPMENT TOOLS **|** COMPILERS **|** BOOKS

microSD CARD
CN5
MMC-CD#
R33
1K
VCC
CD/DAT3
CMD
VCC
CLK
GND
DAT0
G
VCC-MMC
C12
100nF
RC4-MISO

MMC-CS#   R29 2K2   R32 3K3
RC5-MOSI   R28 2K2   R31 3K3
RC3-SCK   R27 2K2   R30 3K3
MMC-CD#

mRST#
T1
RESET

VCC
R22
1K
D1
BAT43

E5
10uF

GLCD-D2 RH2
GLCD-D3 RH3
RE1   RE1
RE0   RE0
LED-B   RG0
RG1   RG1
RG2   RG2
DRIVEA   RG3
mRST#   MCLR
DRIVEB   RG4
         GND
         VDDcore/Vcap
RF7   RF7
RF6   RF6
RF5   RF5
RF4   RF4
RF3   RF3
RF2   RF2
GLCD-D7 RH7
GLCD-D6 RH6

PIC18F87K22

RH1 RH0 RE2 RE3 RE4 RE5 RE6 RE7 RD0 VCC VDD GND RD1 RD2 RD3 RD4 RD5 RD6 RD7 GLCD-CD GLCD-RD#
GLCD-D1 GLCD-D0 RE2 RE3 RE4 RE5 RE6 RE7 RD0 RD1 RD2 RD3 RD4-MOSI RD5-MISO RD6-SCK RD7 GLCD-CD GLCD-RD#

RJ2 GLCD-WR#
RJ3 GLCD-CE#
RB0 RB0
RB1 RB1
RB2 RB2
RB3 RB3
RB4 RB4
RB5 MMC-CD#
RB6 PGC
GND GND
OSC2 OSC2
OSC1 OSC1
VCC PGD
RB7 RB7
RC5 RC5-MOSI
RC4 RC4-MISO
RC3 RC3-SCK
RC2 LED-R
RC1 BUZZER
RJ7 RJ7
RJ6 GLCD-FS

R34
10K
GLCD-FS

RH5 RH4 RF1 ENVREG AVCC AGND RA3 RA2 RA1 RA0 GND VCC RA5 RA4 RC0 RC7 RC6 RJ4 RJ5

C5
100nF

GLCD-D5 GLCD-D4 RF1 VCCO RA3 RA2 BOTTOM LEFT VCCO RA5 RA4 LED-G MMC-CS# UART-RX UART-TX GLCD-RES# GLCD-MD

R23
10K
GLCD-MD

TOUCH PANEL
CN6

VCC
Q8 BC556
R21 1K
R13 10K
VCC
Q5 BC546
R26 10K
R15 10K
RIGHT

VCC
Q6 BC556
R7 10K
TOP
LEFT
Q4 BC546
R17 100K
C6 100nF
R14 10K

BOTTOM
Q7 BC546
R20 100K
C9 100nF
R19 10K
R18 10K
VCC

TOUCH PANEL CONTROLLER
DRIVEB
DRIVEA

VCC
R1 100K
LED-R
R4 100K
Q1 IRLML6302
A_RED

VCC
R2 100K
LED-G
R5 100K
Q2 IRLML6302
A_GREEN

VCC
R3 100K
LED-B
R6 100K
Q3 IRLML6302
A_BLUE

VCC
R37 1K
BZ1
BUZZER
R36 10K
Q9 BC546
R35 1K

VO
OSC1
X1 12MHz
OSC2
VEE
C7 22pF
C8 22pF

VR 10K
CONTRAST

VO
GLCD-CD
GLCD-RD#
GLCD-WR#
GLCD-CE#
GLCD-D1
GLCD-D0
GLCD-D2
GLCD-D3
GLCD-D4
GLCD-D5
GLCD-D6
GLCD-D7
GLCD-RES#
Vee
GLCD-MD
GLCD-FS

RA6963
GLCD CONTROLLER

VCC C1 100nF
VCC C2 100nF
VCC C3 100nF
VCC C4 100nF

VCC-3.3
U12
UART-TX TXD   OSCO
         DTR#   OSCI
         RTS#   TEST
         VCCIO AGND
UART-RX RXD   NC
         RI#   CBUS0
         GND   CBUS1
         NC   GND
         DSR#   VCC
         DCD#   RESET#
         CTS#   GND
         CBUS4 3V3OUT
         CBUS2 USBDM
         CBUS3 USBDP
FT232RL

VCC C15 100nF
VCC C16 100nF
VCC
R9 4K7
R10 10K
VCC E4 10uF

CN1
USBDP D+
USBDM D-
VBUS
VCCO
USB MINI-B

C17 100nF

VCC-MMC
FB1 FERRITE BEAD
E2 10uF
VCC-3.3
E1 10uF
C11 100nF
REG1
VOUT 2 3 VIN
       1
MC33269DT-3.3
C10 100nF
VCC
E3 47uF

VCCO VCC-3.3
CN4
PGD PGD mRST#
CN3

VCC VCC
RG2 RG1 RF7 RF6 RF5 RF4 RF3 RF2 RF1 NC RE7 RE6 RE5 RE4 RE3 RE2 RE1 RE0 RD7 RD6-SCK RD5-MISO RD4-MOSI RD3 RD2 RD1 RD0 RC4-MISO RC5-MOSI RC3-SCK RB4 RB3 RB2 RB1 RB0 RA5 RA4 RA3 RA2
CN2

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SmartGLCD 240x128 Schematic
ver. 1.51

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