EasyTFT board

EasyTFT 262K COLORS 320X240

RD WR GND VCC NC RS NC CS D0 D1 D2 D3 D4 D5 D6 D7 RST NC +5V BPWM
3mm

M02830 T-9A

RS6 5

XR YU XL YD

mikro**e** **EasyTFT** 262K COLORS 320X240

TFT

262K colors
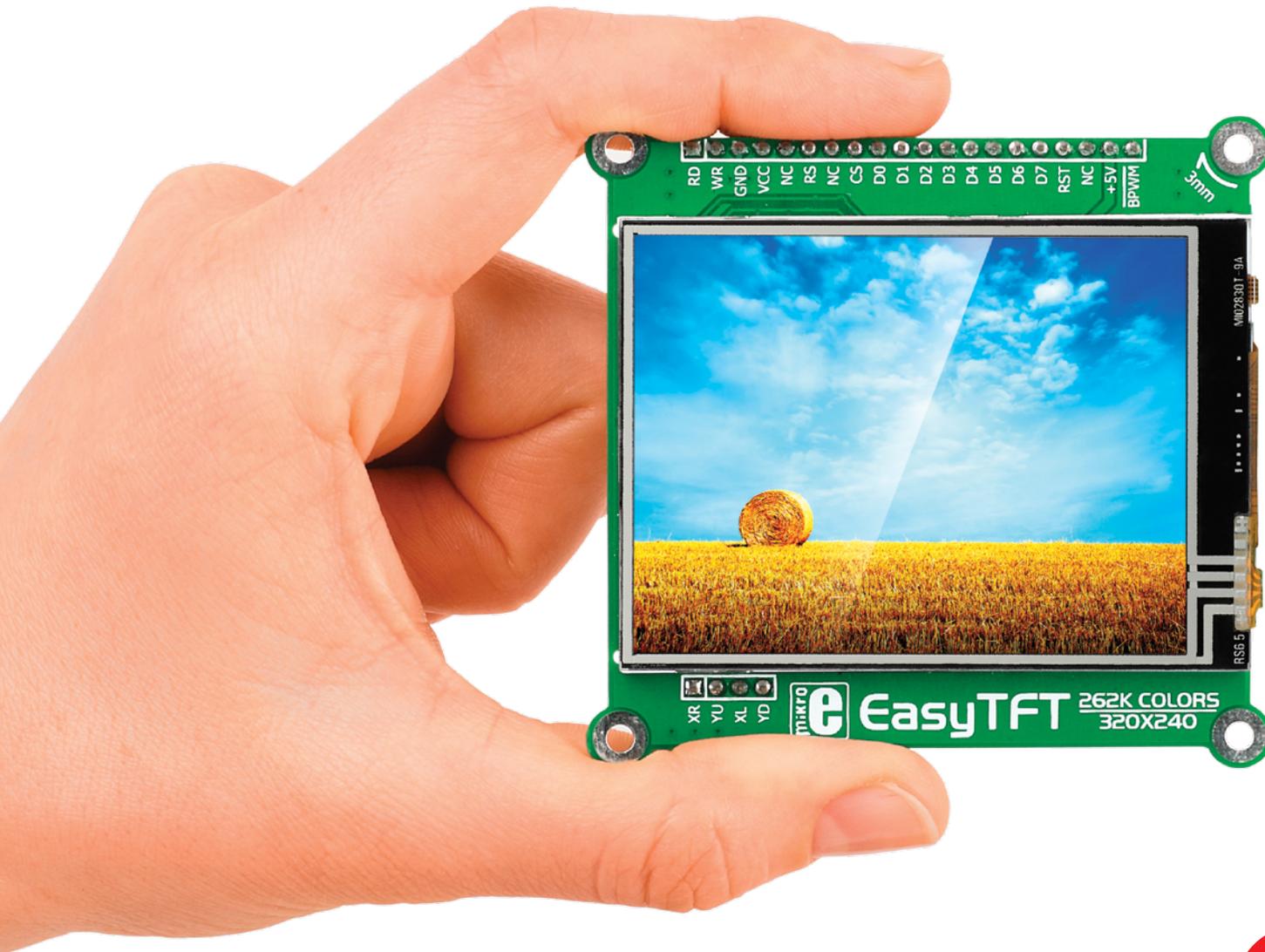
Board information

The EasyTFT board as shown on **Figure 1** contains 2.83" TFT color display **MI0283QT-9A** with 320x240 pixel resolution, which is driven by **ILI9341** display controller, capable of showing advanced graphical content. Each pixel can display 262K different colors. TFT display is covered with a resistive touch panel which can be used as input device. The board is primarily designed to be used as a display board on mikroElektronika Easy development boards. It perfectly fits with the uniquely designed plastic distancer on the GLCD Easy development board socket. For further connectivity there are two female headers, with data and control pinout lines (**CN1** and **CN3**). After testing and building the final program, this card can also be used in your final device. The board also contains mounting holes for easier integration into your designs.
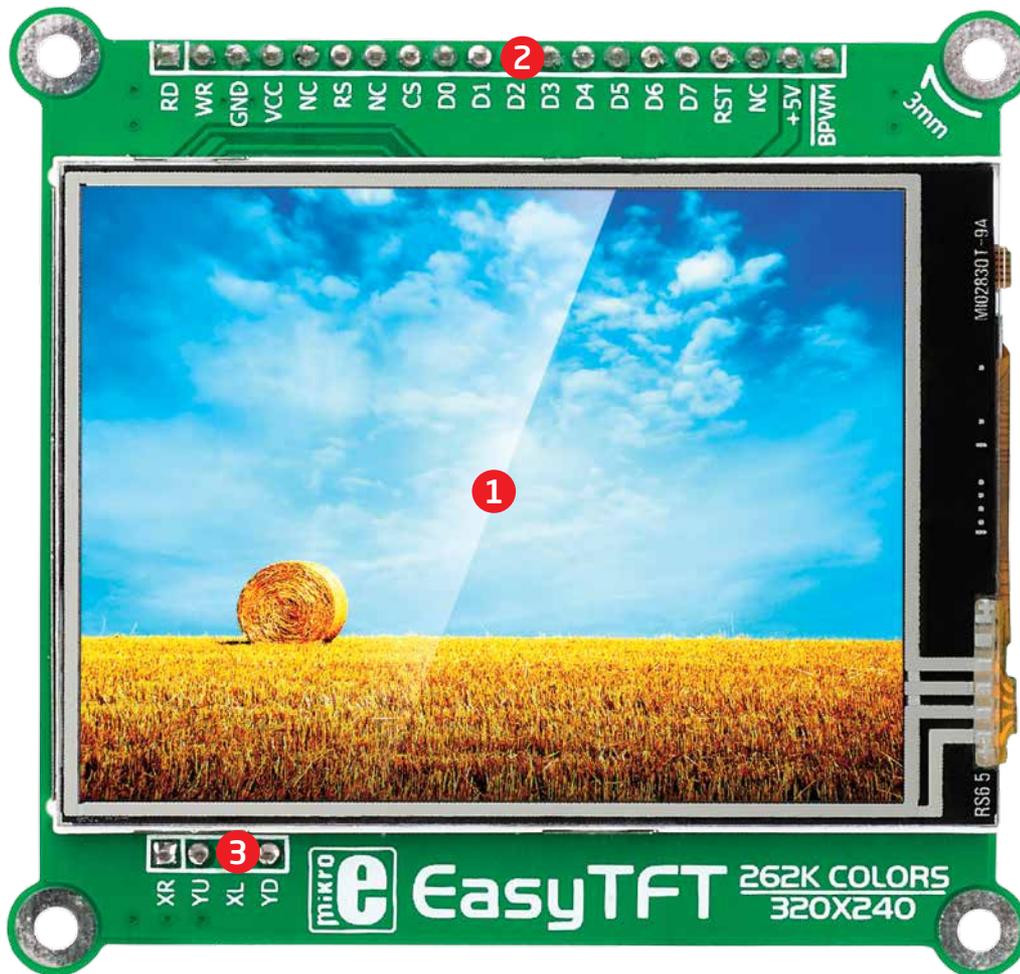

1 320x240 pixel 2.83" color **TFT display** with LED back-light, **ILI9341** controller and resistive touch panel.

2 **CN1 female header pinout:**

RD - Read signal line
WR - Write signal line
GND - Reference ground
VCC - Power supply
RS - Command/data select line
CS - Chip selection line
D0-D7 - Data lines
RST - Display reset line
+5V - 5V back-light power supply
BPWM - Back-light PWM line

3 **CN3 female header pinout:**

XR - Right side touch panel coordinate
YU - Up side touch panel coordinate
XL - Left side touch panel coordinate
YD - Down side touch panel coordinate

Figure 1: EasyTFT board

EasyTFT

VCC- 3.3V VCC- 5V

TFT1

CN3
1
2
3
4
F1X4

CN2
LCD-XR
LCD-YU
LCD-XL
LCD-YD
TouchPanel Connector SMD

VCC- 3.3V
R3 10K

VCC- 3.3V
R24 10K

LCD-BLED
R23 1K

Q1 BC846
Q2 BC846
Q4 BC846
Q3 BC846
R7 12

R4 10K   R5 10K

LCD-RST   R6   220

D7   R8   220
D6   R9   220
D5   R10   220
D4   R11   220
D3   R12   220
D2   R13   220
D1   R14   220
D0   R15   220

1   LED-K
2   LED-A1
3   LED-A2
4   LED-A3
5   LED-A4
6   IM0
7   IM3
8   IM2
9   IM1
10 RESET
11 VSYNC
12 HSYNC
13 DOTCLK
14 ENABLE
15 DB17
16 DB16
17 DB15
18 DB14
19 DB13
20 DB12
21 DB11
22 DB10
23 DB9
24 DB8
25 DB7
26 DB6
27 DB5
28 DB4
29 DB3
30 DB2
31 DB1
32 DB0
33 SDO
34 SDI
35 RD
36 WR
37 RS
38 CS
39 TE
40 VCC-IO
41 VCC
42 VCC
43 GND
44 XR
45 YD
46 XL
47 YU

VCC- 5V
VCC

CN1
1
2   LCD-RD
3   LCD-WR
4
5
6   LCD_RS
7
8   LCD_CS#
9   D0
10 D1
11 D2
12 D3
13 D4
14 D5
15 D6
16 D7
17 LCD-RST
18
19
20 LCD-BLED
F1X20

LCD-RD   R16   220
LCD-WR   R17   220
LCD_RS   R19   220
LCD_CS# R20   220

LCD-XR
LCD-YD
LCD-XL
LCD-YU

VCC

VCC- 3.3V
E1 10uF

U1
1 IN OUT 5
2 GND
3 EN ADJ 4
AP7331-ADJ

R18 287K

R21 39K

C4 100nF
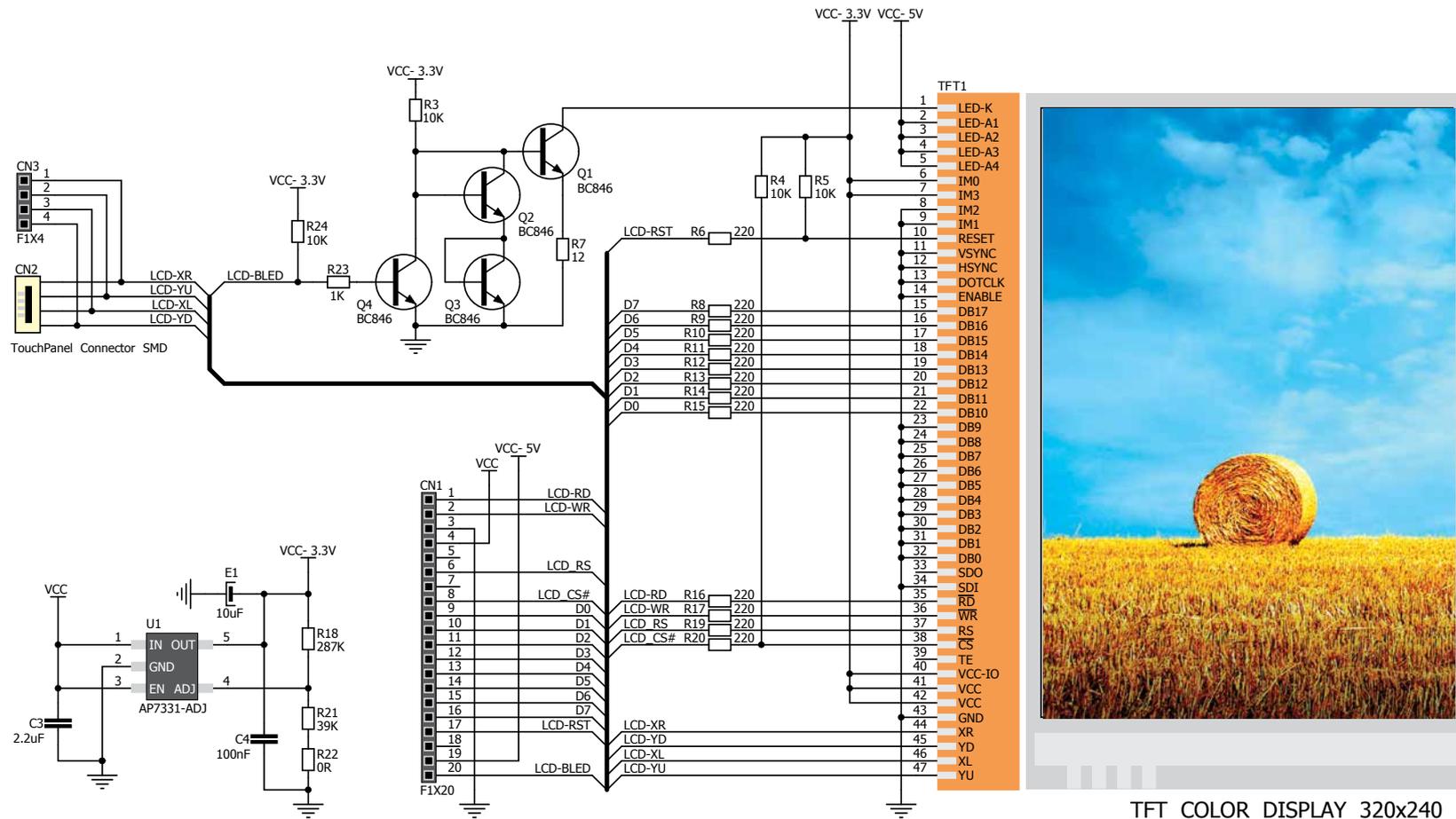
R22 0R

C3 2.2uF

TFT COLOR DISPLAY 320x240

Figure 2: EasyTFT board schematic

EasyTFT

How to properly place your EasyTFT board into the socket?

Before you plug the EasyTFT board into the GLCD socket, make sure that the **power supply is turned off.** The figures below show how to plug the EasyTFT board properly. First make sure that EasyTFT board orientation matches the plastic distancer and male headers on the Easy development board GLCD socket. Place the EasyTFT board over the socket so each male header is properly aligned with the female headers as shown in **Figure 1-1**. Then put the EasyTFT board slowly down until all the pins match the socket as shown in **Figure 1-2**. Check again if everything is placed correctly and press the EasyTFT board until it is completely plugged into the socket as shown in **Figure 1-3**. If done correctly all the pins should be fully inserted. Now you can turn on the power supply.

Figure 1-1: On-board GLCD socket has plastic distancer and male headers which will help you to correctly orient the MCU card before inserting.
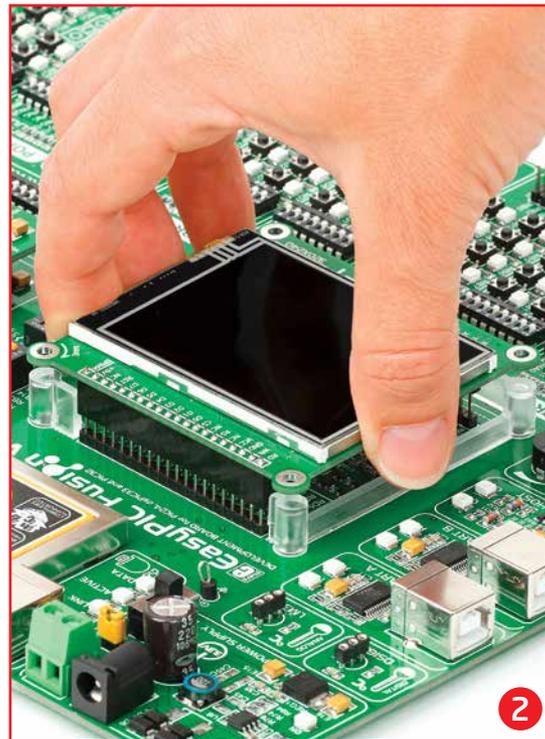

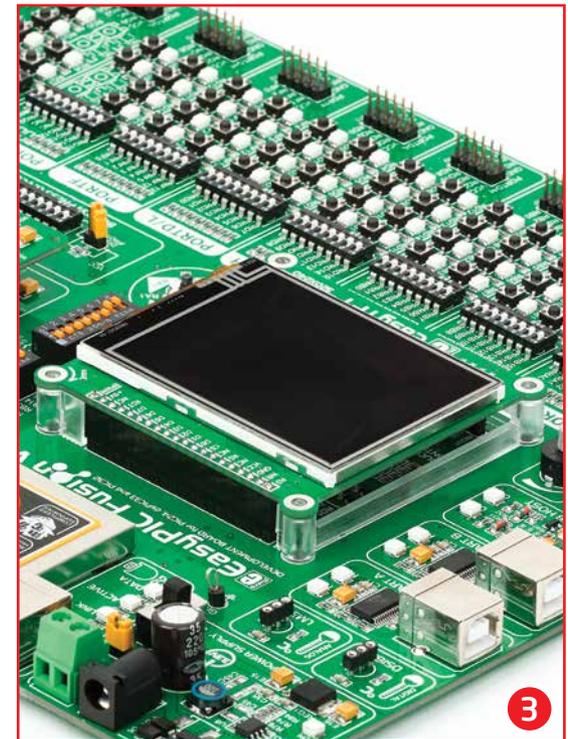**Figure 1-2:** Place the EasyTFT board on the socket so that pins are aligned correctly.

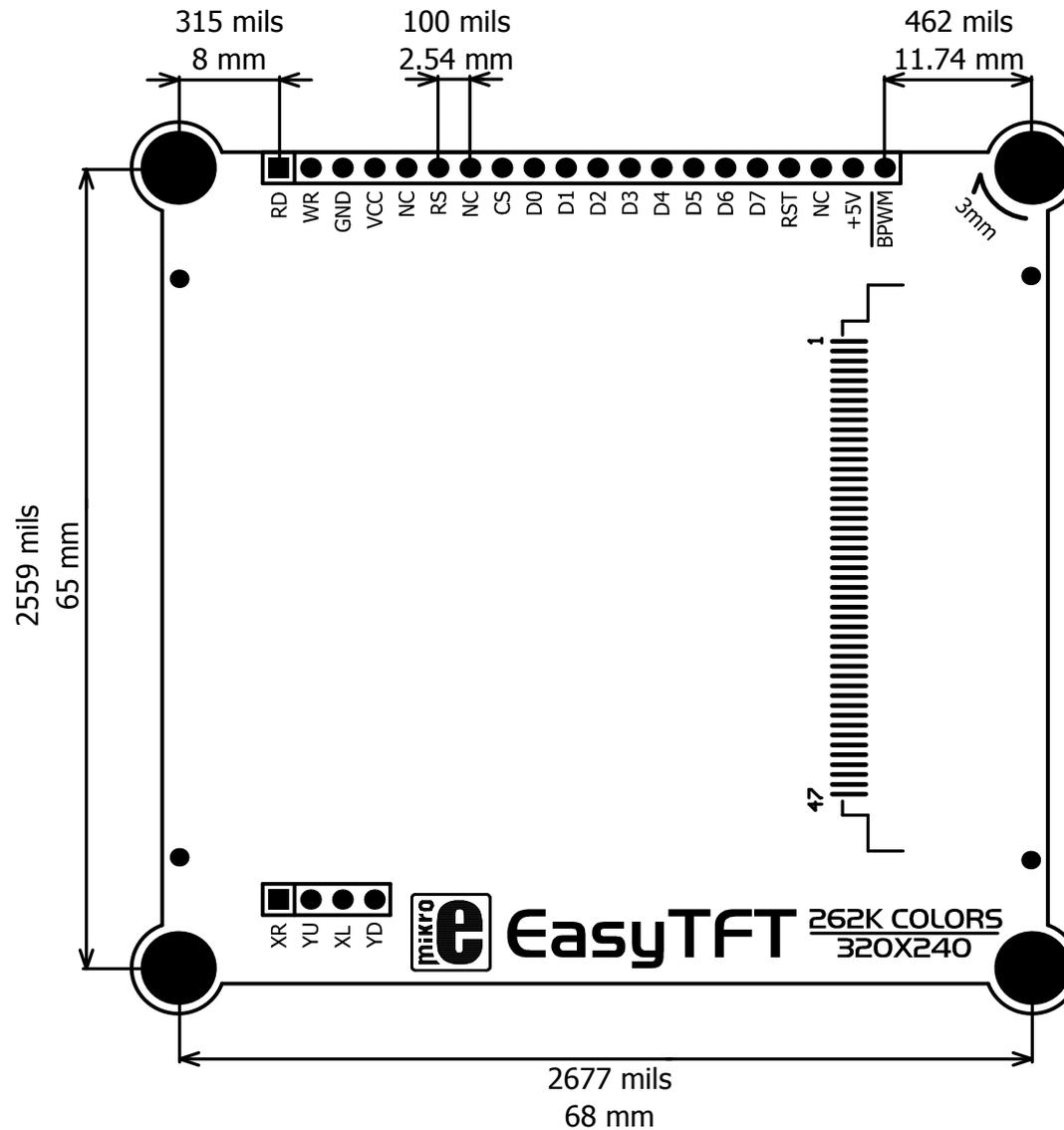**Figure 1-3:** Properly placed MCU card in Easy development board GLCD socket.

EasyTFT

Board dimensions

Figure 3: EasyTFT board dimensions.

TFT

262K colors

QVGA

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