TFT COLOR DISPLAY 320X240px WITH TOUCHPANEL

PWM	RST
SD-CD	NC
NC	NC
NC	NC
GND	NC
D7	D6
D5	D4
D3	D2
D1	D0
GND	NC
WR	RD
CS	RS
YD	XR
YU	XL
GND	NC
SD-CS	SCK
MOSI	MISO
3.3V	NC
GND	5V
NC	GND

PSoC® TFT EXPANSION BOARD

PSoC® TFT
EXPANSION BOARD

Breakout board for 320 x 240 px TFT touch screen
compatible with CY8CKIT-050 PSoC® 5LP dev. kit.

TO OUR VALUED CUSTOMERS

I want to express my thanks to you for being interested in our products and for having confidence in MikroElektronika.

The primary aim of our company is to design and produce high quality electronic products and to constantly improve the performance thereof in order to better suit your needs.

Nebojsa Matic
General Manager

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Introduction to PSoC® TFT Expansion Board
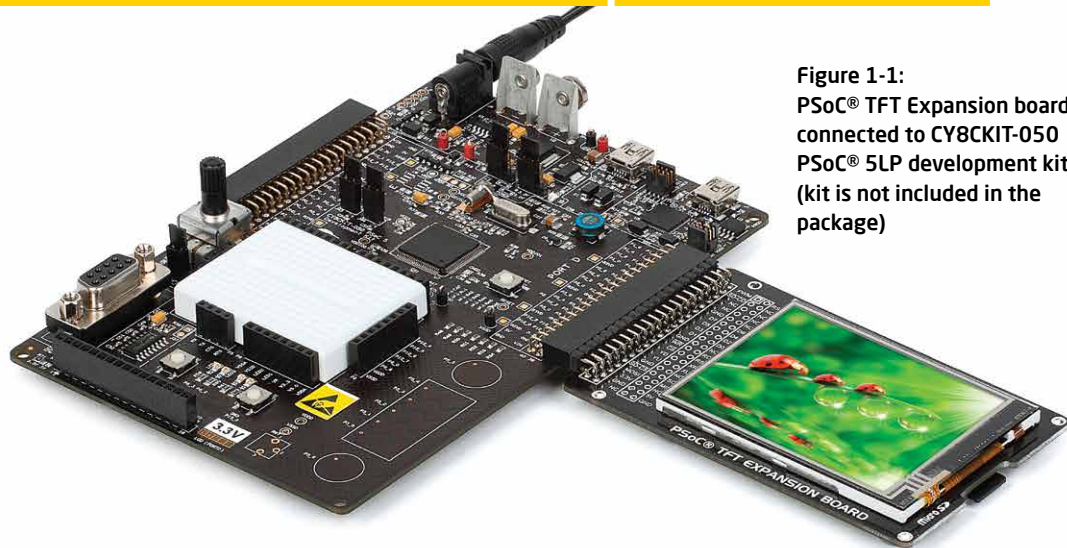
Figure 1-1:
PSoC® TFT Expansion board connected to CY8CKIT-050 PSoC® 5LP development kit (kit is not included in the package)

The **PSoC® TFT Expansion Board** contains a 2.8", 320x240 px resolution **MI0283QT-9A** TFT display and a microSD slot. The TFT can display up to 262k different colors thanks to the **ILI9341** display controller driving it. The screen is covered with a **resistive touch panel** that you can use as an input device. You can also use the **PSoC® TFT Expansion Board** together with the **CY8CKIT-050 PSoC® 5LP** development kit. Four **mounting holes** (ø2 mm) enable easier integration, and **2x20 side headers** are provided (unsoldered).
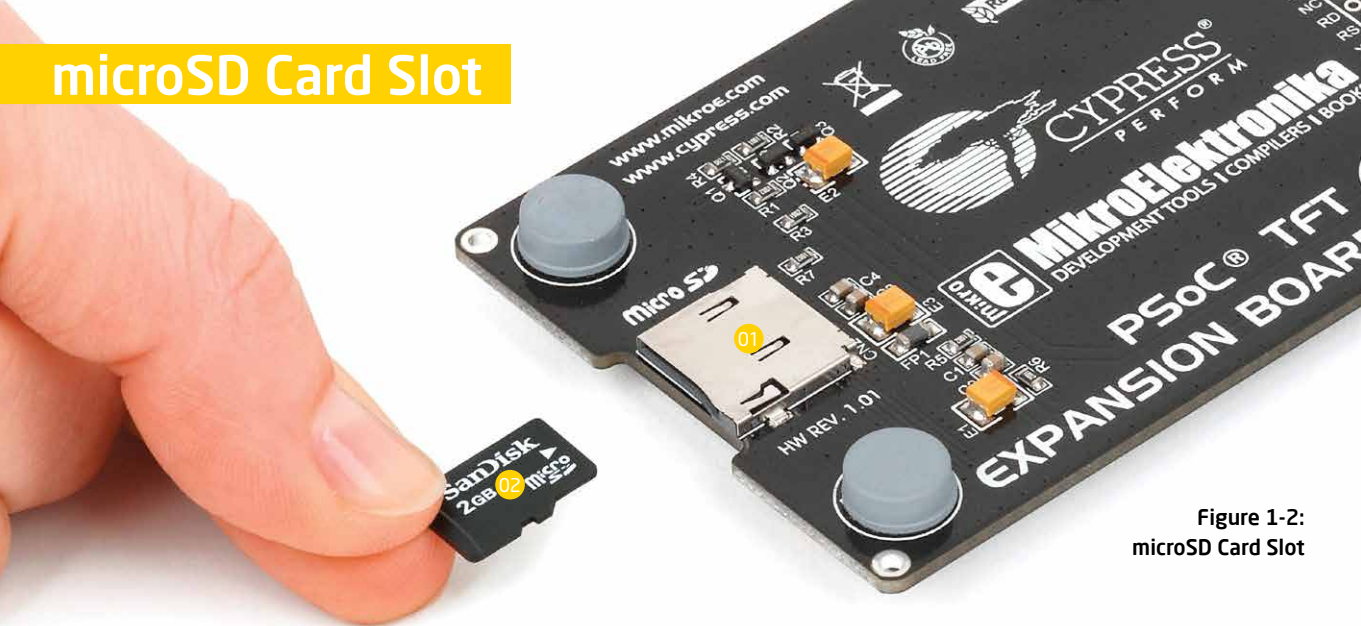
microSD Card Slot

Figure 1-2:
microSD Card Slot

The **PSoC® TFT Expansion Board** is equipped with a **01** **microSD card slot.** You can use your **02** microSD cards to store data externally and thus save your microcontroller's memory. MicroSD cards communicate with the microcontroller through the Serial Peripheral Interface (**SPI**). A ferrite and a capacitor are provided to compensate the voltage and current glitch which can occur when pushing-in and pushing-out a microSD card into the socket. Proper insertion of the microSD card is shown in **Figure 1-2**.
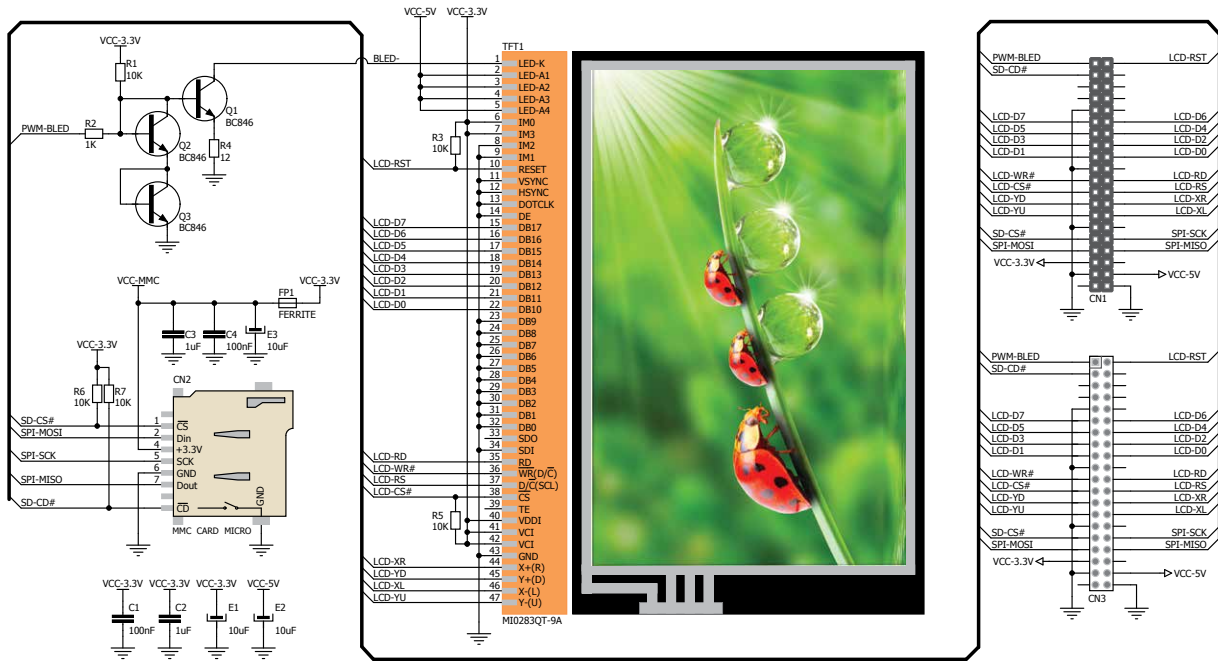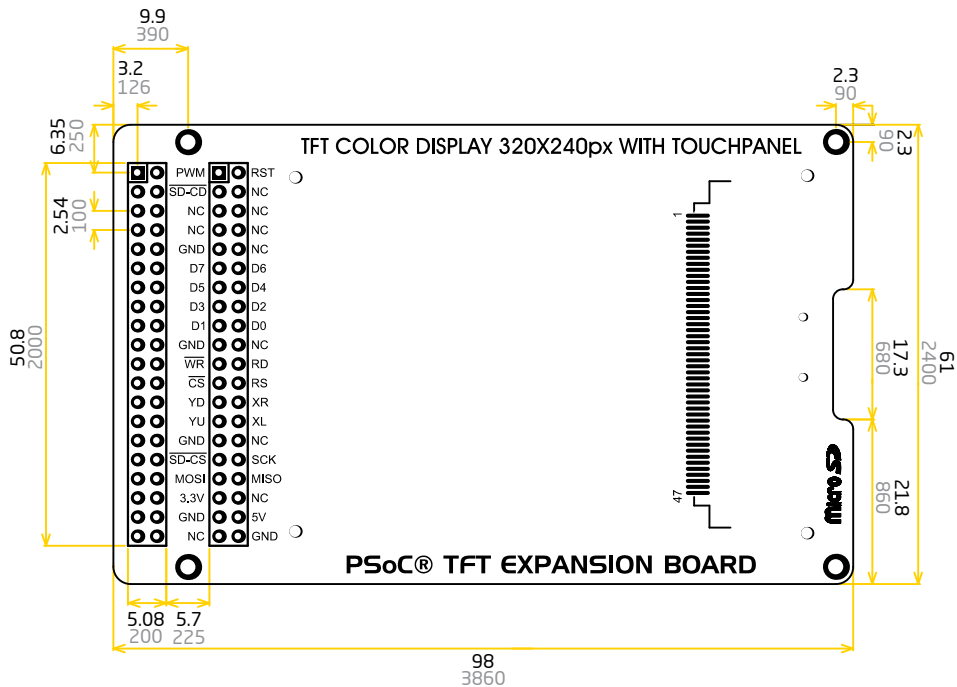
Schematic

Figure 1-3: PSoC® TFT Expansion Board schematic

Dimensions

TFT COLOR DISPLAY 320X240px WITH TOUCHPANEL

PSoC® TFT EXPANSION BOARD

Pin	Pin
PWM	RST
SD-CD	NC
NC	NC
NC	NC
GND	NC
D7	D6
D5	D4
D3	D2
D1	D0
GND	NC
WR	RD
CS	RS
YD	XR
YU	XL
GND	NC
SD-CS	SCK
MOSI	MISO
3.3V	NC
GND	5V
NC	GND

Dimensions (mm / mils):
9.9 / 390
3.2 / 126
6.35 / 250
2.54 / 100
50.8 / 2000
5.08 / 200
5.7 / 225
98 / 3860
2.3 / 90
2.3 / 90
17.3 / 680
21.8 / 860
61 / 2400

Legend
━━ mm
━━ mils

Mounting hole size
ø 2 mm
ø 80 mils

Tolerance
+/- 0.3mm

If you want to learn more about our products, please visit our website at www.mikroe.com
If you are experiencing some problems with any of our products or just need additional
information, please place your ticket at www.mikroe.com/support/
If you have any questions, comments or business proposals,
do not hesitate to contact us at office@mikroe.com

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