

PSoC[®] TFT EXPANSION BOARD

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



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Introduction to PSoC® TFT Expansion Board

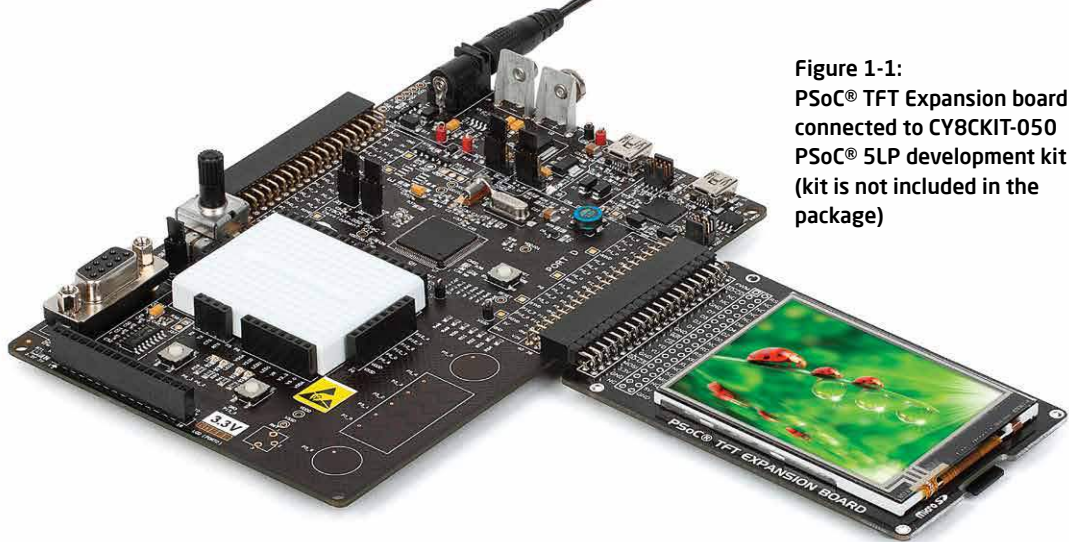


Figure 1-1:
PSoC® TFT Expansion board
connected to CY8CKIT-050
PSoC® 5LP development kit
(kit is not included in the
package)

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

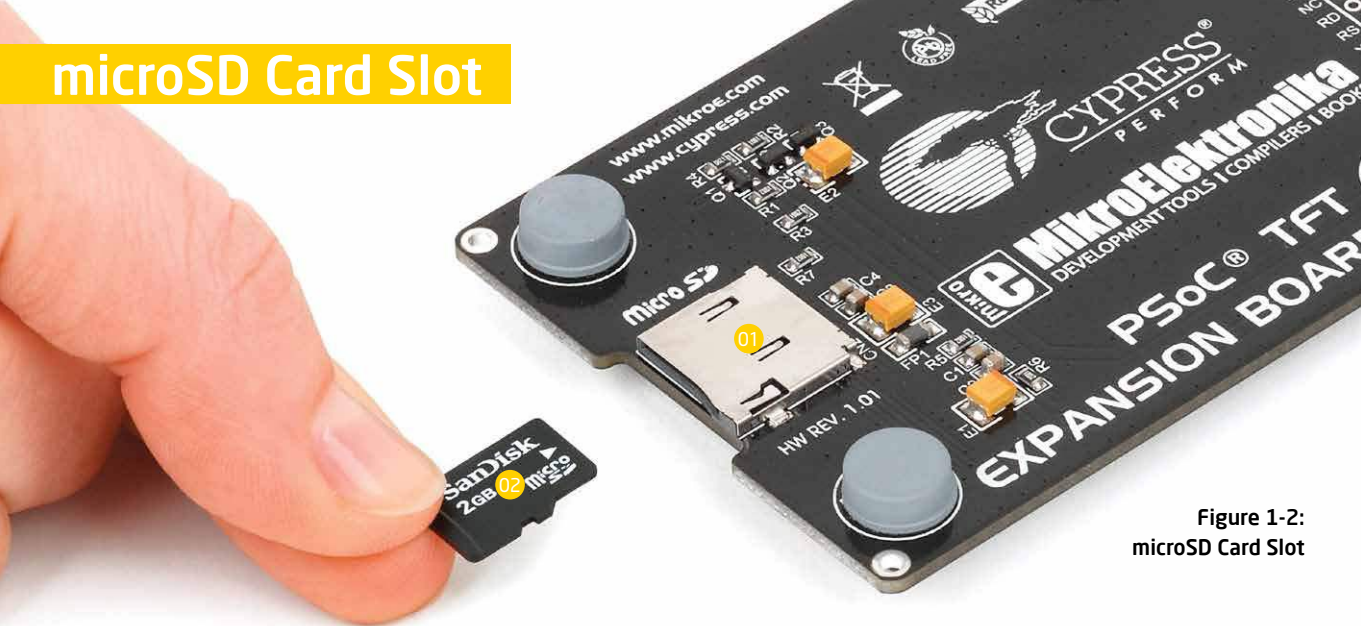


Figure 1-2:
microSD Card Slot

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

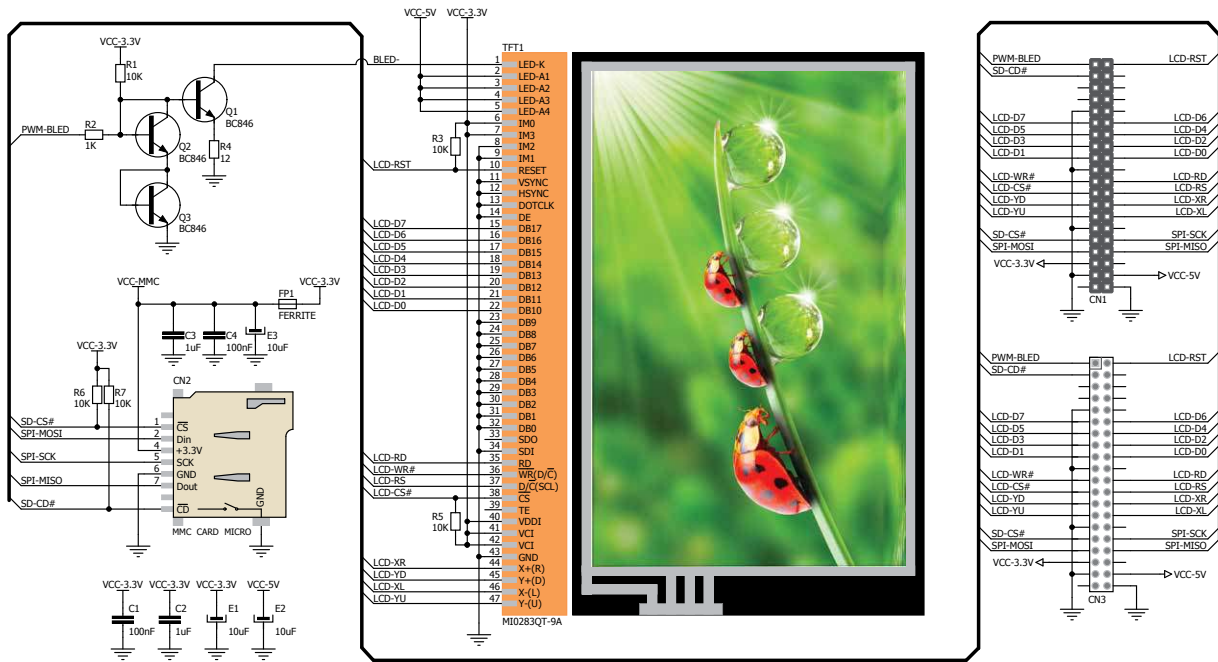
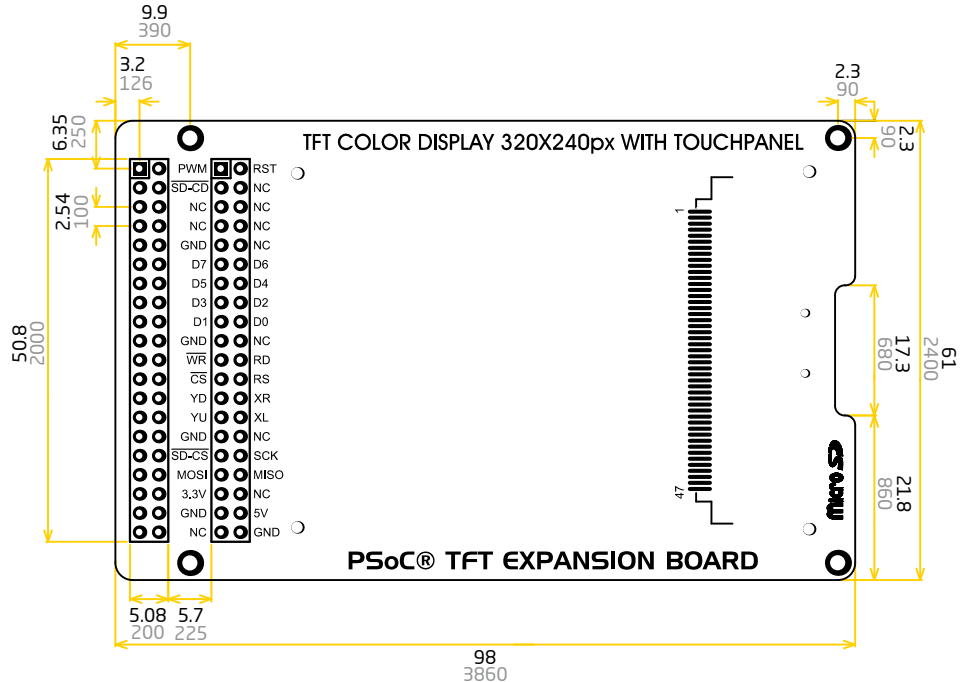


Figure 1-3: PSoC® TFT Expansion Board schematic

Dimensions



Legend

mm
 mils

Mounting hole size

ø 2 mm
 ø 80 mils

Tolerance

+/- 0.3mm

Notes:



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

PSoC TFT Expansion Board Manual
ver. 1.01

