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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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.

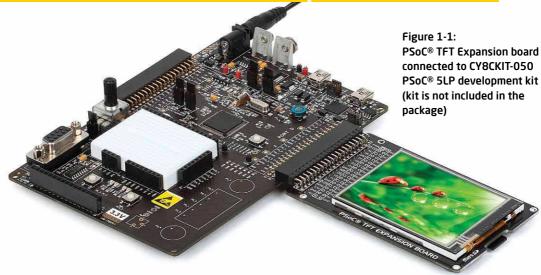
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Nebojsa Matic General Manager

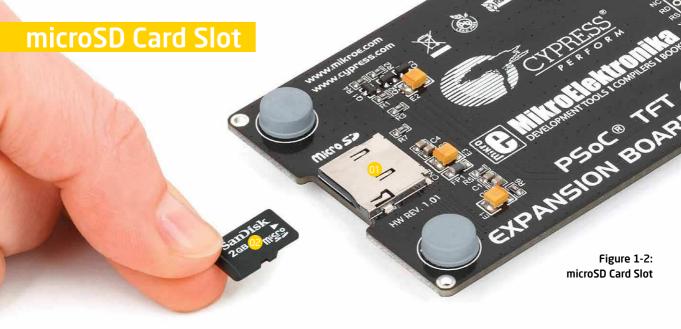
Table of Contents

Introduction to PSoC* TFT Expansion Board	4
microSD Card Slot	
Schematic	(
Dimensions	
Disclaimer	9

Introduction to PSoC® TFT Expansion Board



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 (ØZ mm) enable easier integration, and 2x20 side headers are provided (unsoldered).



The PSoC® TFT Expansion Board is equipped with a immicroSD card slot. You can use your immicroSD 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

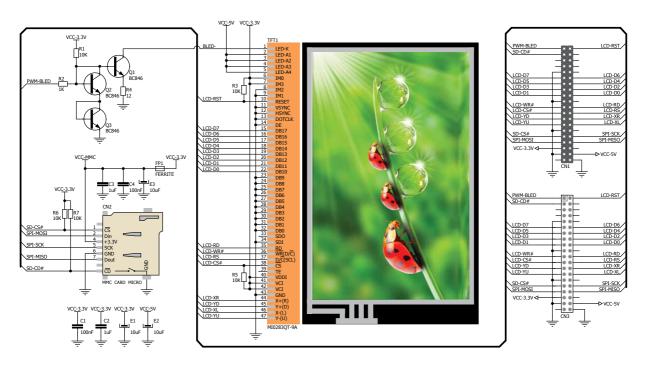


Figure 1-3: PSoC® TFT Expansion Board schematic

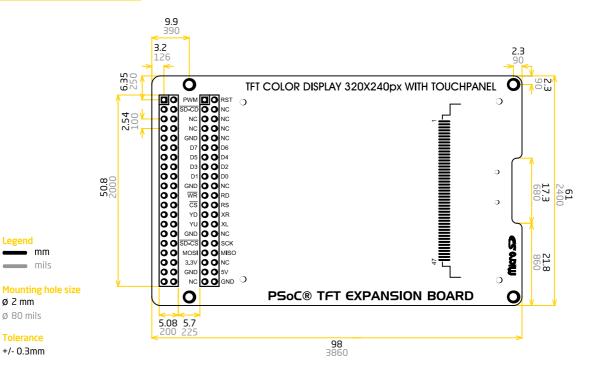
Dimensions

mm

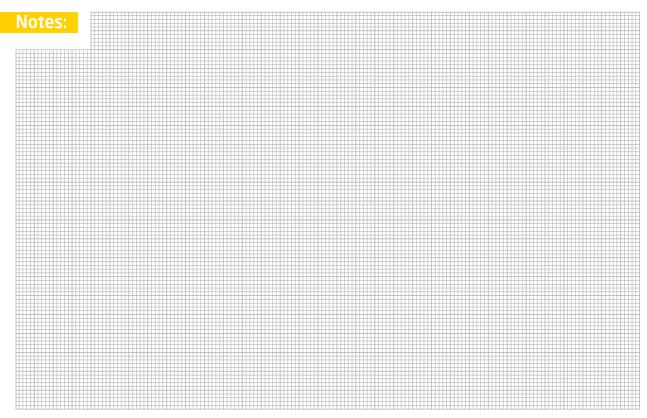
mils

ø 2 mm ø 80 mils

+/- 0.3mm



Page 7



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PSoC TFT Expansion Board Manual ver. 1.01