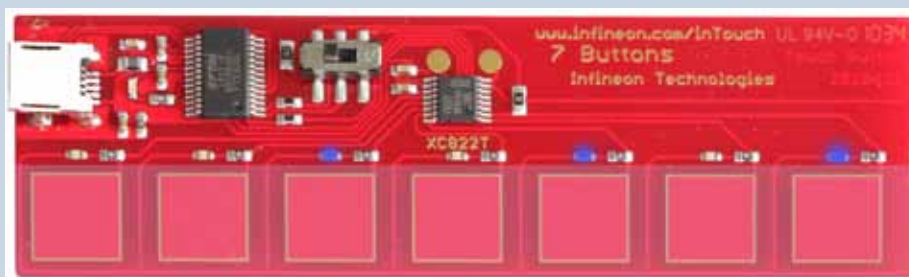


7 Buttons Application Kit Solution for touch and LED-display control

THE KIT IS BUILT around Infineon's new XC822 8-bit microcontroller and is a combined control solution for capacitive touch buttons and LED-display functionality. The sensing sensitivity is adjusted to work with a 2mm acrylic glass cover mounted on the substrate.

A dedicated functional unit of the XC822 microcontroller manages both, the control of the capacitive touch sensing and the driving of an LED-matrix for the use in displays. Specific ROM code is part of the device to reduce configuration and calibration effort in the design.

The application example code is loaded to the Flash memory of the microcontroller and can be accessed and modified with DAVE™ Bench - Infineon's free development tool chain. You can easily build up on this code and develop your own solution with fast time to market.



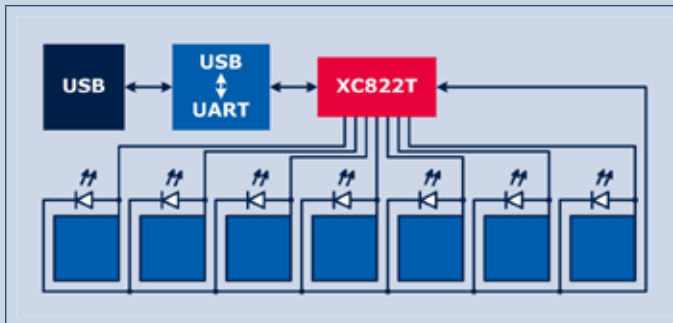
Key Features

- Flexible and ready to use solution for combined capacitive touch and LED-display control
- XC822 microcontroller featuring a dedicated functional unit for touch and display control and a ROM library to support configuration and calibration
- Application example code for control of 7 touch buttons and 7 touch indicator LEDs
- Documentation and Tools on CD-ROM
 - DAVE™ Bench free development tool chain
 - Product and application documentation
- USB I/F for power supply and programming access

7 Buttons Application Kit

Solution for touch and LED-display control

Functional blocks of the 7 Buttons Application Kit



- 7 capacitive touch sensor buttons covered with 2mm acrylic glass
- One LED for each button to indicate touch incidents
- XC822T-1FRI microcontroller
 - functional unit for combined touch and LED-display control
 - ROM library with optimized code supporting configuration and calibration
 - UART / USB interface for code and programming access
- USB connector for power supply

Microcontroller for advanced touch sense control

The XC822 microcontroller used in this Application Kit is part of a new scalable set of devices supporting advanced touch sense control for the use in industrial and automotive applications.

Availability

Product	Flash	ADC	Co-Processor	50mA Ports	Temp. Range	Package	AEC Q100
SAF-XC822T-0FRI	2KB	4ch / 10bit	no	no	- 40 to + 85°C	PG-TSSOP-16	no
SAF-XC822T-1FRI	4KB	4ch / 10bit	no	no	- 40 to + 85°C	PG-TSSOP-16	no
SAF-XC822MT-1FRI	4KB	4ch / 10bit	yes	no	- 40 to + 85°C	PG-TSSOP-16	no
SAF-XC824MT-1FGI	4KB	4ch / 10bit	yes	no	- 40 to + 85°C	PG-DSO-20	no
SAF-XC836MT-2FRI	8KB	8ch / 10bit	yes	yes	- 40 to + 85°C	PG-TSSOP-28	no
SAF-XC835MT-2FGI	8KB	8ch / 10bit	yes	yes	- 40 to + 85°C	PG-DSO-24	no
SAK-XC822MT-1FRA	4KB	4ch / 10bit	yes	no	- 40 to + 125°C	PG-TSSOP-16	yes
SAK-XC836MT-1FRA	4KB	8ch / 10bit	yes	yes	- 40 to + 125°C	PG-TSSOP-28	yes
SAK-XC836MT-2FRA	8KB	8ch / 10bit	yes	yes	- 40 to + 125°C	PG-TSSOP-28	yes

Published by
Infineon Technologies AG
85579 Neubiberg, Germany

© 2010 Infineon Technologies AG.
All Rights Reserved.

Visit us:
www.infineon.com

Order Number: B000-H0000-X-X-7600
Date: 10 / 2010

ATTENTION PLEASE!

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffheitsgarantie"). With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

INFORMATION

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

WARNINGS

Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office. Infineon Technologies Components may only be used in life-support devices or systems with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.