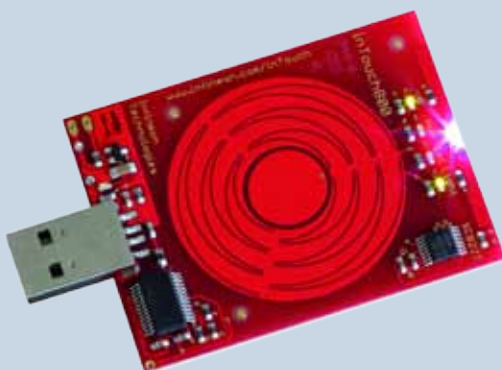


Color Wheel Application Kit Solution for touch and LED color control

THE KIT IS BUILD around Infineon's new XC822 8-bit microcontroller and is a ready to use solution to adjust light color, saturation or brightness using a capacitive touch wheel and button as HMI.

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.



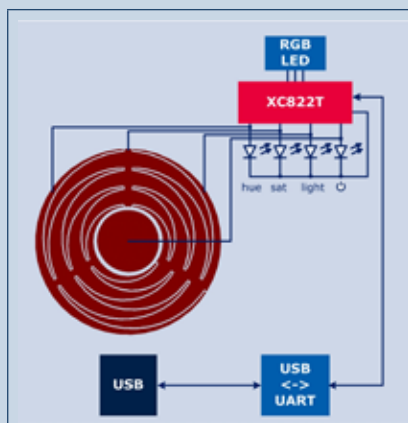
Key Features

- Flexible and ready to use control solution to adjust LED colors with a touch wheel
- XC822 microcontroller featuring capacitive touch and LED supply control
- Application example code for touch wheel / button and LED color control
- 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

Color Wheel Application Kit

Solution for touch and LED color control

Functional blocks of the Color Wheel Application Kit



- RGB LED
- status LEDs (hue, sat, light, on / off)
- 3 segment touch wheel with centered touch button
- XC822T-1FRI microcontroller
 - RGB LED color control with 3 channel PWM
 - touch sensing and control of status LEDs with only 5 digital I/O
 - 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 - + 85°C	PG-TSSOP-16	no
SAF-XC824MT-1FGL	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-2FGL	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-XC838MT-1FRA	8KB	8ch / 10bit	yes	6	- 40 to + 125°C	PG-TSSOP-28	yes
SAK-XC836MT-2FRA	8KB	8ch / 10bit	yes	6	- 40 to 125°C	PG-TSSOP-28	yes

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