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Capacitive Touch Sensor Module

Review ~~Proximity Sensor Basics~~

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~~Touchscreens Work? Touch~~

Sensor How to Make a Simple

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Touch Capacitive sensor, theory  
and design. Capacitive Touch

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Hardware Design Guide

to provide guidance for the design and layout of capacitive touch sensors so that they can achieve maximum performance. By achieving maximum performance in the hardware, the capacitive touch software library can

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perform the capacitive touch measurements with the lowest power consumption. After the software library is implemented for the application, the tuning guides can be used to tune the

Capacitive Touch Hardware

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Design Guide (Rev. A)

to achieve the best possible capacitive touch performance with the EFM32. For the lowest energy consumption and "wake on touch" functionality, an EFM32 with LESENSE should be used. This application note focuses on

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how to design hardware for capacitive touch with the EFM32 microcontroller. For code examples, please refer to the capacitive touch

Hardware Design for Capacitive  
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Capacitive Touch Hardware  
Design Guide (pdf) What is  
capacitive touch? When a  
capacitive panel is touched, a  
small amount of charge is drawn  
to the point of contact, which  
becomes a functional capacitor.  
The change in the electrostatic

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field is measured to find the location.

Capacitive Touch Hardware Design Guide and Conjuring ...  
The Capacitive Touch layout design guidelines details the operational design, PCB routing,



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and hardware component layout required to integrate the Renesas Synergy Capacitive Touch Solution into an application project. Target Devices Synergy, RX130, RX230, RX113, and RX231 with on-chip Capacitive Touch Sensing Unit (CTSU).

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LPC82x Touch Solution Hardware  
Design Guide. Rev. 1.0 — 22  
December 2014 Application Note.  
Document information Info  
Content Keywords Capacitive  
Touch, Touchpad, Sensor,  
Electrode, Drive/Sensing lines,

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Dielectric, Overlay panel,  
Sensitivity, Touch, False Touch.  
Abstract This application note  
describes the overall hardware  
design aspect of NXP's Capacitive  
Touch solution, shows the  
schematic design, materials, and  
PCB design including the most



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critical Touch sensor design.

AN11623 LPC82x Touch Solution  
Hardware Design Guide

This document describes the layout and mechanical design guidelines used for touch sensing applications with surface sensors.

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Capacitive sensing interfaces provide many advantages compared to mechanical user interfaces: modern look and feel, easy to clean, waterproof and robust.

Design with surface sensors for

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touch sensing applications ...

Introduction To Sensor Design

Touch Sensors Design Guide 1-3

10620D-AT42-04/09 Capacitance

(C) is defined in Equation 1-1.

Equation 1-1. Capacitance It

should therefore be clear that

thinner panels and higher

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dielectric constant materials yield higher capacitance change during touch and hence a higher gain and a better SNR.

Touch Sensors Design Guide -  
Farnell element14  
Hardware Design for Capacitive

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document details the Capacitive Sensing (CS) interface of QN908x. It includes QN908x key CS features introduction, sensing basics, supported patterns, hardware design consideration, SDK porting, and key parameters tuning. Key Features □ Self-

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capacitance sensing.

QN908x Capacitive Sensing  
Design Guide

AT09363: PTC Robustness Design  
Guide APPLICATION NOTE

Introduction The capacitive touch  
interfaces are increasingly



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Guide Dev A Ti becoming popular in all electronics goods. To seamlessly integrate with wide variety of appliances the capacitive touch interfaces must exhibit robust operation. The Peripheral Touch Controller (PTC) is a hardware module providing high

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AT09363: PTC Robustness Design  
Guide

The purpose of this design guide is to provide guidance for the design and layout of capacitive touch sensors so that they can achieve maximum performance.

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By achieving maximum performance in the hardware, the CapTivate<sup>™</sup> capacitive touch software library can perform the capacitive touch measurements consuming the lowest power.

Design Guide — CapTivate

*Page 35/44*

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&trade; Technology Guide 1.83.00

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Description The Noise Tolerant Capacitive Touch HMI design (TIDM-CAPTOUCHEMCREF) is a reference design for implementing noise tolerant capacitive touch human-machine

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Noise Tolerant Capacitive Touch  
HMI Reference Design - TI.com  
The Basics of Capacitive Touch  
When searching for capacitive  
touch systems, each  
microcontroller supplier will point

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you towards their own series of application notes, software drivers and reference designs in an effort to steer you into their ecosystem.

Designing with Capacitive Touch  
for Commodity Applications ...

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Guide Rev A Fi  
This document describes the guidelines to develop touch designs for the Atmel QTouch Surface solution. The design guide is an excellent starting point that provides useful guidelines to help in initial selection and construction of

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touch surface sensors, describes the important software parameters, and their impact.

Atmel QTouch Introduction -  
Microchip Technology  
Capacitive Touch Hardware  
Design Guide Rev A Ti Author: dc-



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On the other hand, capacitive sensors have non-linear output, although this can be reduced in touch-mode devices. However, this may come at the cost of greater hysteresis. Finally, careful

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Circuit design is required for the interface electronics because of the high output impedance of the sensor and to minimise the effects of parasitic capacitance.

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