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(PNP, capacitive) How
Do Touchscreens
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How to Make a Simple
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Wie funktioniert ein
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Touchscreen?MPR121
turn (almost) any surface
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Devices (PTC)

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Sensor IC TTP229 User
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Capacitive sensor,
theory and design.

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Capacitive Touch

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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 perform the

capacitive touch

measurements with the

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

Capacitive Touch Hardware Design Guide (Rev. A)

to achieve the best possible capacitive touch performance with the

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EFM32. For the lowest energy consumption and "wake on touch" functionality, an EFM32 with LESENSE should be used. This application note focuses on how to design hardware for capacitive touch with the EFM32 microcontroller. For code examples, please refer to the capacitive touch

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Hardware Design for
Capacitive Touch
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 field

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Touch is measured to find the location.

Hardware Design Guide and Conjuring ...

The Capacitive Touch layout design guidelines details the operational design, PCB routing, and hardware component layout required to integrate the Renesas Synergy

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Solution into an
application project.

Target Devices Synergy,

RX130, RX230,

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with on-chip Capacitive

Touch Sensing Unit

(CTSU). Related

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combination of
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Guide. Rev. 1.0 — 22

December 2014

Application Note.

Document information

Info Content Keywords

Capacitive Touch,

Touchpad, Sensor,

Electrode,

Drive/Sensing lines,

Dielectric, Overlay

panel, Sensitivity,

Touch, False Touch.

Abstract This

application note

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describes the overall hardware design aspect of NXP's Capacitive Touch solution, shows the schematic design, materials, and PCB design including the most critical Touch sensor design.

AN11623 LPC82x
Touch Solution
Hardware Design Guide
This document

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describes the layout and mechanical design guidelines used for touch sensing applications with surface sensors. Capacitive sensing interfaces provide many advantages compared to mechanical user interfaces: modern look and feel, easy to clean, waterproof and robust.

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Design with surface sensors for 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 dielectric

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

Touch Sensors Design
Guide - Farnell
element14

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QN908x Capacitive
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Introduction This

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

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parameters tuning. Key

Features • Self-

capacitance sensing.

QN908x Capacitive

Sensing Design Guide

AT09363: PTC

Robustness Design

Guide APPLICATION

NOTE Introduction

The capacitive touch

interfaces are

increasingly becoming

popular in all electronics

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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

AT09363: PTC
Robustness Design
Guide

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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. By achieving maximum performance in the hardware, the CapTivate™ capacitive touch software library can perform the capacitive touch

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Measurements

consuming the lowest
power.

Design Guide

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Technology Guide

1.83.00 ...

Description The Noise

Tolerant Capacitive

Touch HMI design (TI

DM-CAPTOUCHEM

CREF) is a reference

design for implementing

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Touch tolerant capacitive touch human-machine interfaces (HMIs).

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 you towards

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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 ...

This document
describes the guidelines
to develop touch designs

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

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Introduction -

Microchip Technology

Capacitive Touch

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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.

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Finally, careful 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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