mTouch™ Projected Capacitive Touch-Screen Sensing Technology

Microchip's mTouch™ Projected Capacitive Touch-Screen Sensing Technology and development kit provide a royalty-free solution with GUI-based tools. This flexible, low cost, low power solution facilitates the design and integration of projected capacitive touch-screen applications.

Benefits of mTouch Projected Capacitive Touch-Screen Sensing Technology

- High Flexibility
 - Easily accessible solution via royalty-free source code license
- Low-Cost PIC16F707 Microcontroller
 - < \$0.99 each in volume
- Low Power
 - Wide operating voltage range of 1.8V-5.5V
 - Operating Current 1.5 mA at 5V typical

mTouch Projected Capacitive Development Kit (DM160211)



The mTouch Projected
Capacitive Development
Kit includes a 3.5" sensor
mounted on a sensor board,
a projected-capacitive board
with the PIC16F707 MCU and
fully functional firmware. The
kit enables users to connect
sensors to up to 24 channels
without modifying the firmware.

Web Links

Touch Sensing Design Center: www.microchip.com/mtouch



Key Performance Characteristics

(Based on development kit DM160211)

Touch Screen Support: up to 3.5" diagonal, independent XY

tracking for 2 touches in real time

Number of Channels: dev kit channels 12 x 9, 108 nodes;

software expandable to 24 channels & 144 nodes

Response Time: <15 ms typical

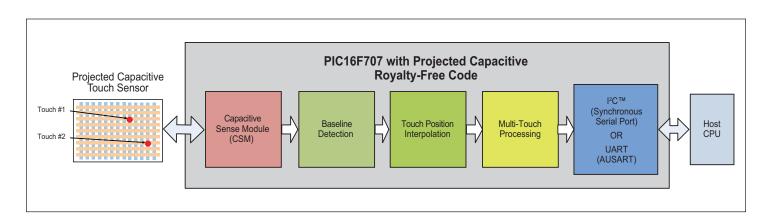
Report Rate: Single Point: 65 pps, Two Points: 55 pps **Power Consumption:** operating 1.5 mA typical, sleep 20 μA

Resolution: 128 bar-to-bar, scaled to 1024 x 1024 **Package Size:** 44-pin 8 x 8 mm QFN & TQFP

Communication: UART to USB convertor on dev kit for easy

connection to any PC

Technology: Gesture Capable, Auto adjusts for environmental changes (baseline, calibrate, drift)





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