

# 3DTouchPad

## World's First 2D Multi-Touch Pad with 3D Gesture Sensing

### Summary

The 3DTouchPad is a blend of our 2D projected-capacitive touch solutions with our patented GestIC® technology for 3D gesture recognition. This powerful PC accessory offers multi-finger tracking and surface gestures as well as free-space 3D gestures. It can not only enhance your productivity by allowing you to interact with your PC using gestures, it is also a powerful development platform. A comprehensive SDK/API is available for application and driver development and a Graphical User Interface (GUI) allows you to assess performance.

### 3DTouchPad – The PC Peripheral

- Supports all major operating systems
  - Windows® 7/8, Mac OS® X, etc.
- 10 finger tracking
- Multi-finger surface gestures
  - Pinch/zoom
  - Scrolling
- Windows 8 edge swipes
- USB HID interface – driverless usage

The 3D gesture detection also offers driverless, direct support for:

- Controlling content flow with flick gestures
- Scrolling content with an air wheel
- Closing a window/application with double flicking (Windows 7/8)
- Maximizing windows with a double flick (Windows 7/8)

### 3D Gestures for PCs and PC Peripherals

The 3DTouchPad offers a comprehensive set of features to enhance your productivity daily as you use your PC. Available OS-wide, the library of gestures can be used with your existing software and offer an intuitive and easy method to control content flow. For example, you can review the results of an image search in your web browser by using left and right flicks of your hand. You can control a presentation or view pictures with the same ease of use. The 3DTouchPad SDK/API offers you additional features, demonstrations and sample code to unleash your creativity in developing a variety of applications such as:

- Auto wake-on-proximity or gesture
- Media center control
  - Air wheel for volume control
  - Flicks for previous/next track
- Games based on 3D positioning
  - Virtual joystick
- Content-aware gesture mapping

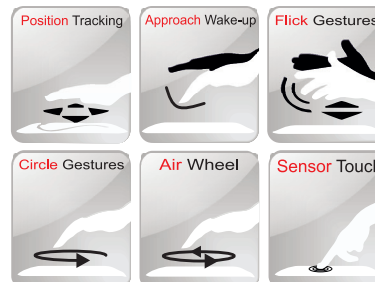


### Features

#### 2D Touch



#### 3D Gestures



### 3DTouchPad – The Development Platform

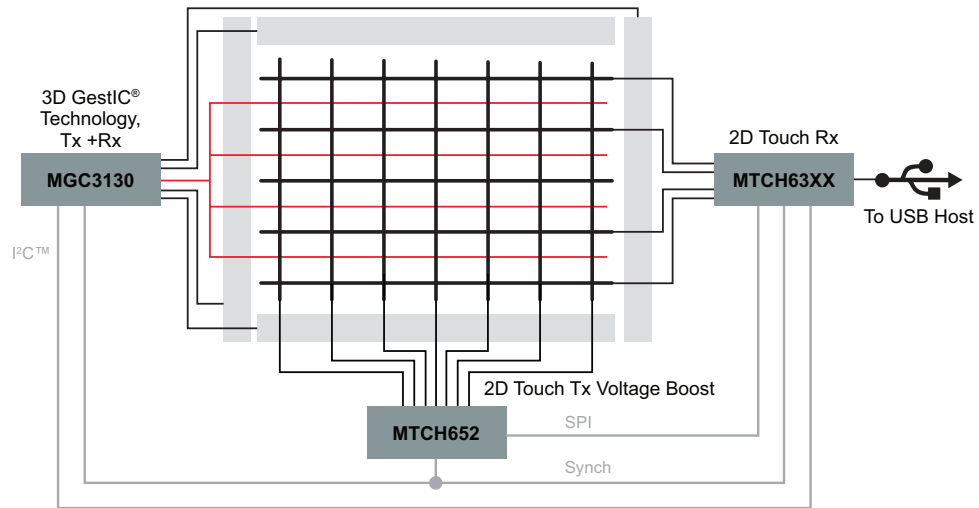
In addition to its out-of-the-box features, the 3DTouchPad is the first development platform for 3D gesture application and driver development. The 3DTouchpad GUI provides touch and 3D data and the comprehensive SDK/API is a feature-rich and well-documented development platform for applications and drivers.

- 2D touch position + touch ID
- 2D gestures – swipes
- 2D gestures – zoom
- 2D gestures – scroll
- 2D raw signals access
- 3D GestIC technology XYZ – position
- Full access to the GestIC Colibri Suite of gestures
- GestIC technology raw signal access



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## 3DTouchPad System Diagram





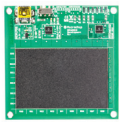
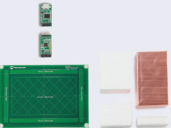
### 2D Touch

- MTCH63XX – 2D touch controller
- MTCH652 – Tx voltage boost, up to 18V

### 3D Gesture

- MGC3130 – Single-Zone Tracking and Gesture Controller

## Development Tools from Microchip

Part Number	Platform	User Interface	Description
 DM160225	3DTouchPad	2D + 3D	<b>3DTouchPad:</b> Dedicated PC and PC peripheral development kit supporting 2D touch including surface gestures, 3D free-space gesture recognition and 3D motion tracking. SDK/API available.
 DM320016	MTCH6301	2D touch	<b>Projective Capacitive Touchpad Development Kit:</b> Development kit to create rich, PCAP-based user interfaces with full X-Y coordinate output.
 DM160219	MTCH6102	2D touch, lowest power	<b>Low-Power Projective Capacitive Touchpad Development Kit:</b> Development kit to create rich, low-power PCAP-based user interfaces in applications such as wearable devices with full X-Y coordinate output and surface gesture recognition.
 DM160218	MGC3130	3D	<b>MGC3130 Hillstar Single-Zone Development Kit:</b> Development kit for GestIC® technology-based E-field 3D gesture implementations. SDK/API available.



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[www.microchip.com/3DTouchPad](http://www.microchip.com/3DTouchPad)

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- Консультации по применению компонента;
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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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