



MS Product Categories

MS Product Line – Capacitive Touch Switch Overview



Dignity has taken its two decades of experience with printed electronics and touch technology and applied it to a new field of touch solutions. Capacitive switches (also known as touch foils, touch sensors, etc.) provide some of the enhanced UI design flexibility and aesthetic attractiveness of touch panels, while adding the greater design flexibility, mature production technology and cost effectiveness of membrane switches and printed electronics.

Capacitive switches have unparalleled flexibility in terms of their compatible cover lens materials – they can be incorporated into IMD panels, bonded to glass, ABS, PET, or PMMA. They can be easily designed for a range of touch inputs, from button style, to slides or touch “wheels” to panel style sensors that register touch anywhere on their area. They can be attached to curved surfaces, be easily assembled (simply adhere and attach) and reworked and can fit in the smallest or thinnest assemblies.

Advantages: highly flexible design in terms of button placement, product UI and UX, production processes, etc. Higher end product appearance and better reliability and long life span due to lack of moving parts

Application: Home appliances, consumer electronics, home & office automation, and other projects requiring a touch interface.

- A wide range of button, slide, wheel, panel constructions available
- Dignity can provide cover lens, embedded touch controllers or full display and touch modules
- Dignity also offers firmware adjustment support to its customers

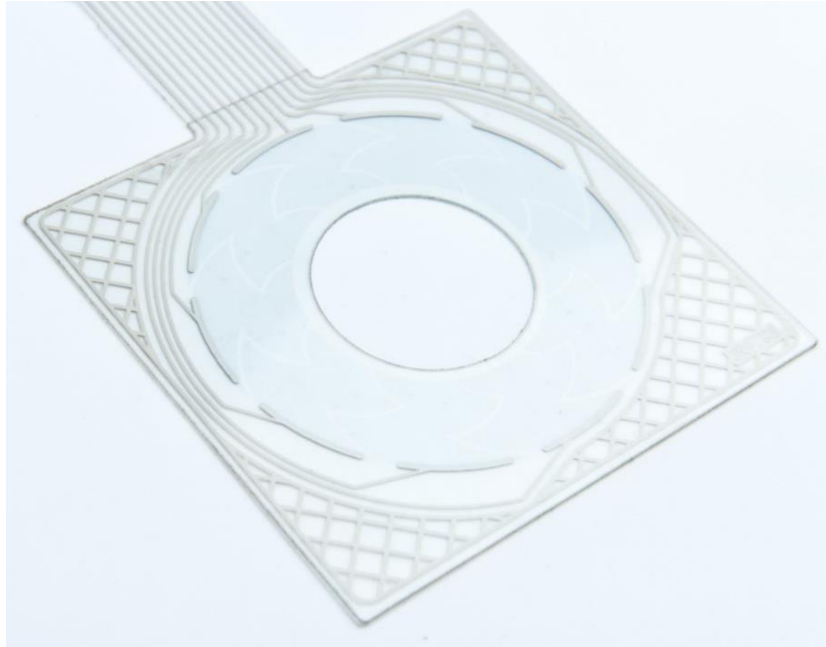
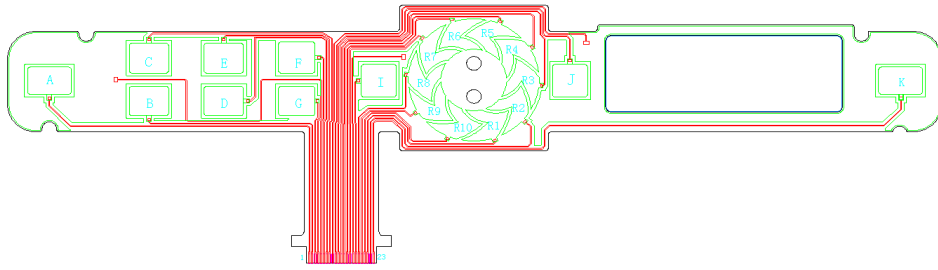
Size: As per client requirement

Substrate Material: CS Glass, ABS or other plastics

Touch Controls: Touch points, touch panels, slide control, wheel control

Customization: Backlighting, integrated display, custom cover glass or panel

MS Product Line – Cap Switch Capabilities



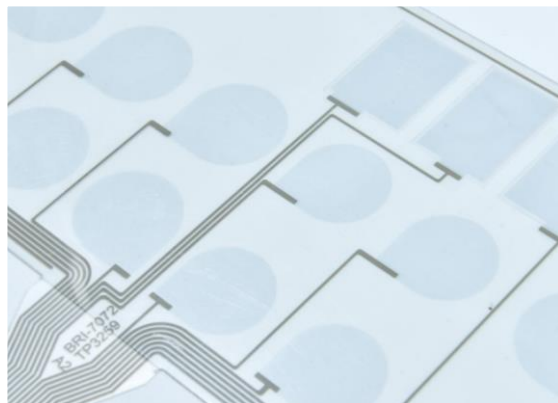
Currently Dignity has also launched large-scale production for capacitive touch sensor projects with major appliance companies in the oven, microwave, dishwasher, hood, washing machine and rice cooker categories.

Dignity's Advantage

One of the few suppliers in the industry with extensive home appliance experience and the capability to provide a full touch solution to customers: from the product design, software and IC tuning, to final production and display integration.

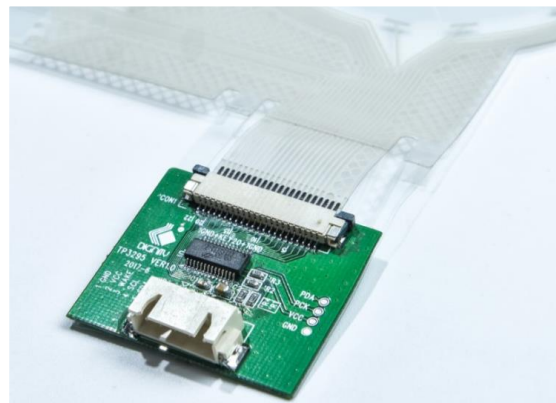
1. Capacitive touch sensor design and production
2. Dignity can provide the cover lens and touch sensor as a sub-assembly; assembly can be performed in a class 1000+ cleanroom with full integration and debubbling equipment
3. Dignity can provide the sub-assembly with IC attached and provide IC & product tuning service
4. Dignity can also provide a full assembly with LCD/LED display and backlight, integrated in-house.
5. The assembly can be provided with motherboard attached.

MS Product Line – Cap Switch Product Formats



Touch Foil

The base sensor layer that detects a user's touches; created by a printed electronic production process.



Touch Foil + IC

The sensor foil with a touch IC attached via one of two methods.



Touch + Cover Lens

The sensor foil is bonded to a cover lens of plastic or glass material. Can come with IC embedded.



LED / LCD Touch Module

A full display assembly ready for direction installation; LCD/LED/OLED or other display option optically bonded to the cover lens and touch sensor.

MS Product Line – Cap Switch Product Enhancements



Touch Input Methods	Cover Material	Display Choices	Value Added
Touch Button	Chemically Strengthened Glass	OLED Display	EL Backlighting
Touch “Panel”	IMD Panels	VFD Display	LED Backlighting
Sliders	PMMA	LED Display	COF / COB
Wheels	ABS	LCD Display	Modular IC
-	PET	-	Firmware Design
-	-	-	Touch IC Tuning

Note: Additional enhancements and product options are available upon request.

MS Product Line – Cap Switch Product Applications



Installed Hobs



Induction



Kitchen Hood



Dish Washer

MS Product Line – Cap Switch Product Applications



Oven



Blender & Food Processor

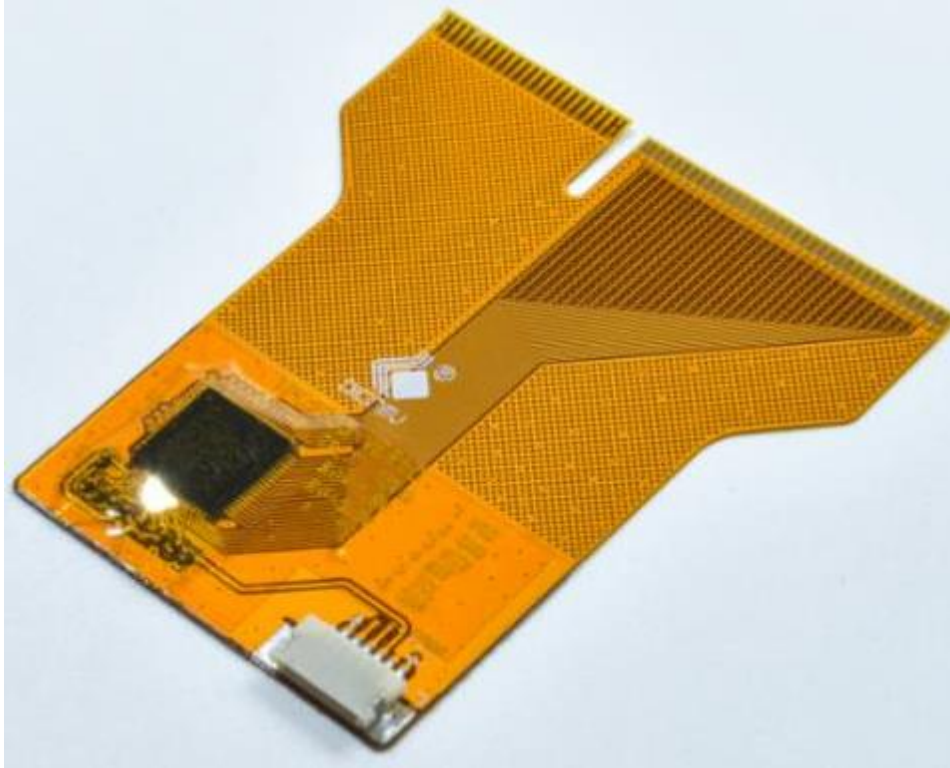


Coffee Machine



Rice / Pressure Cooker

Why Dignity Electronics? - Dignity's Core Advantages



Our Key Advantage

Why are companies as diverse as a boutique HMI suppliers in the US, a Korean industrial monitor provider to a Chinese Fortune 100 corporation working with Dignity Electronics?

1. Reliability

Global supply chains are increasingly fragile – increasingly volatility means reliability and stability is a crucial aspect of supplier selection.

2. Boutique Service / Large Company Capabilities

We have the scale and expertise to supply the world's largest white goods company, but are set up to provide a level of service most large suppliers can't or won't.

3. Dedicated Project Teams

We assign dedicated project teams, including project and design engineers, sales and sales support personnel to handle all key projects and reduce communication costs and project slippage.

Why Dignity Electronics? – Dignity’s Commitment

Some reasons why we are the preferred partner for both multinationals and SMEs for a range of touch solutions:



Extensive Category Experience

We have more than 20 years in the field of HMI solutions and 10 years of touch panel design, production and engineering experience.



First Class Production Capabilities

A modern, flexible and fully equipped production facility allows us to meet the capacity and quality demands of any customer.



Superior Quality Control

We have a rigorous and time tested quality system and structure that has allowed us to work hand in hand with some of the largest and most demanding multinationals.



Superior Service

We have a fully capable engineering, design, project management, logistics and operational team to provide complete service to our customers.



Lead Time Reduction

Our average lead time is less than 20 days for repeat orders and we can provide a design solution for most customers within 3-4 days.



Product Life Extension

We typically offer a year warranty as standard on most products, more than five years of product line availability and free software update services in perpetuity.

Contact Us



Company Headquarters

Address: No. 8 Chaoguang Rd, Xiao Huangpu, Ronggui Town, Shunde District, Foshan, Guangdong

(T): 0757-2290 8398

(F): 0757-2668 1196

Email: conormoore@dignity.com.cn

Web: <http://www.dignity.com.cn>



Shenzhen Sales Office

Address: Bldg B3, No. 725 Mingyou Industrial Products Procurement Center, 168 Baoyuan Road, Xixiang, Baoan District, Shenzhen

(T): 0755-8289 5441

(F): 0755-8289 5441