MS Product Categories
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
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 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

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Note: Additional enhancements and product options are available upon request.
MS Product Line – Cap Switch Product Applications

- Installed Hobs
- Kitchen Hood
- Induction
- 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.
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