LUPHITOUCH
Outstanding HMI Solutions Company

World Leading
Membrane Switches
User Interface Modules
Touch Display Solutions
Manufacturer and Supplier

Dongguan Luphi Electronics Technology Co., Ltd.

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Factory Tel.: +86-769-81619505
Website: www.luphitouch.com

ISO CERTIFICATION

ISO9001:2015/ISO14001:2015/ISO13485:2016
ISO45001:2018 / GJB9001C:2017 Certified Vendor!

Quality | Technology | Innovation | Service | Co-Win

www.luphitouch.com

Jason K. Young
General Manager



We are dedicated in developing and manufacturing various kinds of user interface products for the clients from all of the world! Providing advanced design, high quality products and good service to achieve co-win with all of our clients are always our pursuits!

LUPHITOUCH
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Enterprise Culture
Business Philosophy

Hundreds Years of LUPHI, Science and Technology Promote China!

Enterprise Spirit
Learning communication and Self-transcendence

Learning & Communication: Each LUPHI member shall be dedicated in reducing the misunderstanding in the team.

Self-transcendence: Dare to challenge self and make every tiny thing to be perfect.





Dongguan LUPHI Electronics Technology Co., Ltd.(Trademark: LuphiTouch®) was established in 2015 with the factory covers 48500 square foots. We have 80+ workers and we have been certified by ISO9001, ISO13485, ISO14001 and ISO45001. LuphiTouch®is a hi-tech company which is dedicated in various kinds of resistive membrane switches, capacitive switches, user interface modules, touch display solutions, interface front panels, graphic overlays, rubber keypads, touch panels, MCU development, PCBA development, electronics design and one-stop total solutions for medical, household appliances, measuring instruments & meters, automotive, industrial control, defense, aerospace, marine, consumer electronics, networking & telecom etc. fields. Our clients are widely from the United States, Germany, UK, Italy, Switzerland, Swedeen, France, Denmark, Netherlands, Turkey, Australia etc. countries and areas. We sincerely expect your inquires and look forward to the long-term & stable cooperation with your company!

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LUPHITOUCH Quality Ensuring



Factory view

LuphiTouch® factory locates in Humen town of Dongguan City. It covers 48500 square foots. All of our production area are 100000 class clean rooms. Thereof two 1000 class high-grade clean and anti-static rooms for precision electronics and optoelectronics assembly. We' ve many auto and semi-auto production lines and machines. We also have our own inner reliability testing room, which can do high-low temp. environment testing, life testing, function testing, 3D dimension measuring, salty spray testing etc. to guarantee our products' quality and reliability.







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Staff Life

LuphiTouch® fully attaches importance to the physical and psychological health of employees and their sparetime life. Monthly staff birthday parties, annual sports & cultural festivals, as well as a variety of holiday activities, to cultivate the team spirit and cooperation ability. Always solve problems and provide life services for all staffs. All of us like a big family, we work, live, grow up and make progress together!



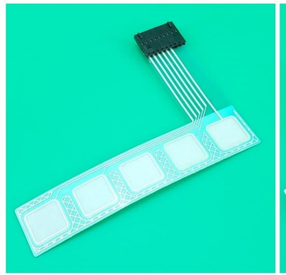
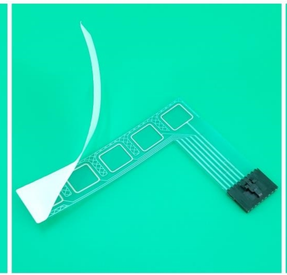


LuphiTouch Development And Manufacturing Capabilities

Some cases for your reference, please see the official website for details: www.luphitouch.com

Household Appliances/Automotive Capacitive Touch Film Switch without Graphic Overlay (Touch Sensor)

There' re two types of touch sensor circuits. One is printed PEDOT on Polyester material and the other type is ITO etched touch circuit. By ITO option, it can get more higher light transparency effect, but of course with more higher cost. PEDOT touch sensor is more economic and its light transparency can meet most of applications. Therefore, most of the touch sensors used in the current market are printed ones. For now, touch sensors are widely used on household appliances, smart kitchens, smart home, automotive and other consumer electronics products.



Digital Printed Graphic Capacitive Switch

Household appliances, intelligent kitchen and smart home are under rapidly development. People' s beauty-appreciation is also increasing accordingly, which gives birth and flourish to market for digital printed graphic capacitive switches. LuphiTouch® can directly make the digital graphic printing on polyester, polycarbonate, glass etc. Our products are popularized by many clients in the whole world!

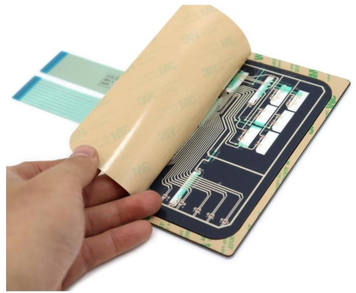


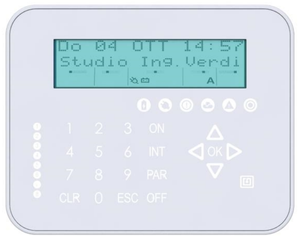


PC/Acrylic/Glass Cover Capacitive Switch

The standard capacitive membrane switch is consists of graphic cover(also called graphic overlay), spacer, touch sensor circuit and rear adhesive layer. The cover layer material can be PC, PMMA, glass, PET etc. and its thickness can be from less than 1 mm to several mm. LuphiTouch' s engineers can also integrate many different functions to the capacitive switch, like backlighting letters or symbols, touch with sound feedback, tactile feedback, vibration feedback, gesture control, bluetooth etc.







Household Appliances Touch Display Modules/Capacitive Touch Control User Interface Module Subassembly

The capacitive touch user interface module is usually consists of front capacitive switch panel, function control PCBA, backlighting module, cabinet or housing, capacitive control software etc. Sometimes, it also includes touch slider, tactile feedback or vibration feedback, sound feedback, pressure sensing, TFT LCD, OLED etc. subassemblies. All of these components are combined together to be a completed user interface module which can perform relevant functions. For now, our user interface modules support I2C, USB, Rs232, SPI, UART etc. mainstream communication protocols. LuphiTouch® user interface modules are widely used in many world-famous home appliances, smart products and medical equipment company.





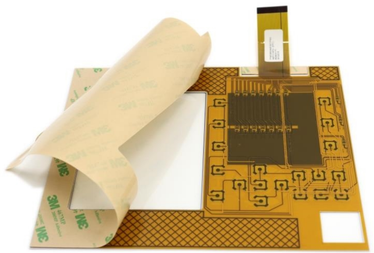


PCB/FPC Circuit Membrane Switch



PCB Circuit Membrane Switch

The common used PCB or FPC circuit for membrane switch is usually single layer or double layers. We suggest to use PCB or FPC as the circuit layer of membrane switch for medical, aerospace, marine, automotive, defense etc. fields and other applications with high temperature, high humidity, high corrosive, high salty etc. circumstances to improve its reliability and stability.



FPC Circuit Membrane Switch

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Backlighting Membrane Switch Subassemblies

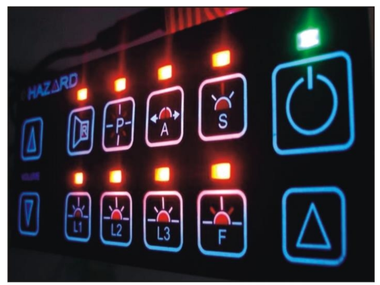
The common backlighting technologies for membrane switches include LED backlighting, El lamp backlighting, fiber backlighting and LGF backlighting. For fiber backlighting, its backlighting effect is soft and even, but its cost is too high. The pure LED backlighting is hard to get the even backlighting effect, so it usually used as the indicators. El lamp only can achieve single color backlighting, and its life is short, and it also need match a driver, which is not convenient and the cost is also not cheap. So the LGF backlighting technology becomes the mainstream now. LuphiTouch® has rich experiences to design and manufacturing all kinds of backlighting membrane switches, especially the LGF backlighting membrane switch.



LGF Backlighting



Fiber Backlighting



El Lamp Backlighting

Medical & Healthcare Applications Membrane Switches

LuphiTouch® is an ISO13485 medical quality management system certified manufacturer. We can customize various kinds of membrane switches, rubber keypads, touch panels, user interface modules, circuit boards and other related user interfaces products for this market. Our customized keypads are widely used on ventilators, defibrillators, AEDs, infusion pumps, X-ray machines, blood analyzers, beauty machines, multifunction physiotherapy beds etc. We can use the standard Autotex PET material or the antibacterial Autotex Am series PET material as the graphic overlay.



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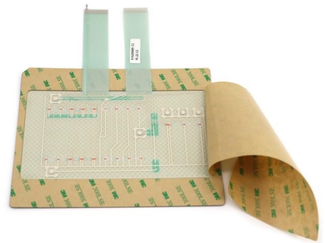
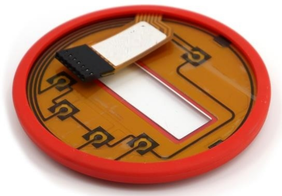
Outdoor Weatherproof Membrane Switches

For the outdoor used instruments or equipments which are long-time exposed under the direct sunshine and rainy weather, and even exposed under the salty-wet environment like ship, boat, yacht, offshore platforms etc., so good weatherproof membrane switch is critical and necessary.

LuphiTouch®designed and manufactured user interface products have very good waterproof capability and UV-resistant performance. We can support client' s IP65, IP67 and even IP68 needs.

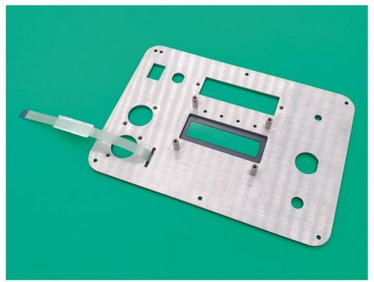




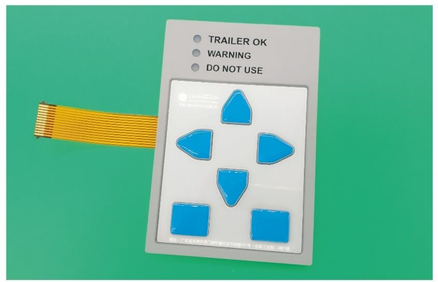


Silicone Rubber Keypad Switch Subassembly/Backpanel Membrane Switch Subassembly

The membrane switches are usually combined with other components, like the silicone rubber keypad, metal/PMMA/PC/FR4 backplate. The rubber keypad switches are usually used on test equipments, instruments, measuring meters, machineries, medical devices etc. Sometimes, the membrane keypad needs good supportive performance for machineries application, then it needs a backplate to provide the support. The common used backplates include stainless steel, aluminum plate, alloy plate, Acrylic, PC, glass, FR4 etc. And it also usually need rivet bolts, STUDs and assemble screws on backside of backplate.

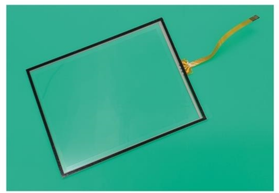






Resistive Touch Screens / Capacitive Touch Screens

LuphiTouch® has 18000 square foot TP factory which can manufacture 4 wires, 5 wires, 8 wires resistive touch screens and various kinds of capacitive touch screens for our clients from the whole world. We also cooperate with LCD companies to provide touch-display modules for different applications. We provide 100% customizing, IC programming and also can provide branded modules with our other user interface products together.







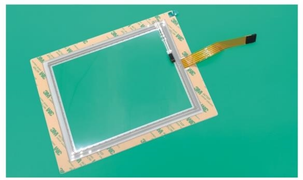


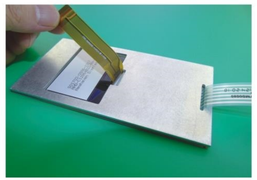


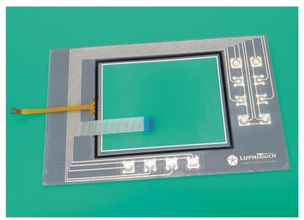


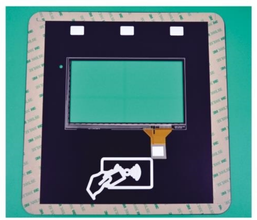
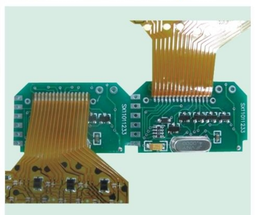
Optical Components Membrane Switch / ACF Hot Pressure Assembly

LuphiTouch® has two 1000 class antistatic clean rooms, OCA vacuum lamination machine and defoaming machine. We can make full lamination or frame assembly of the optical components, like the touchscreen, PC lens, LCD etc. to membrane switch' s display window. In addition, we also can provide the ACF hot pressure welding or called ACF heat bonding service for the soft FPC/FFC cable to PCB or FPC circuit board.







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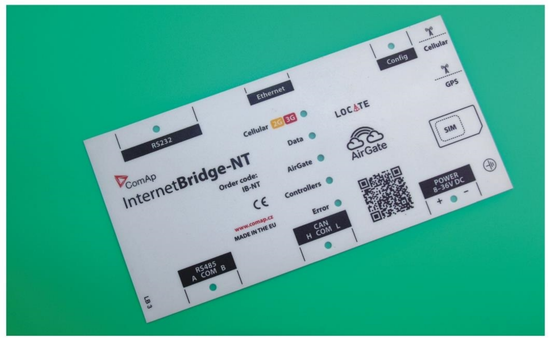
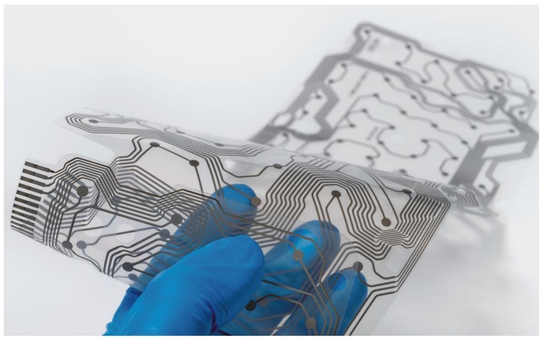
Graphic Overlays / Printed Circuits / Printed Electronics

Graphic overlay is a kind of identification label with silk screen printed or digital printed graphics, buttons, display windows etc. on its backside. The common overlay materials are PET, PC, glass, Acrylic etc.

Printed circuit means printing silver conductive traces, components pads, antenna, NFC etc. on the PET film. PET circuit is flexible and bendable with very economical cost, which is popularized in household appliances, automotive, consumer electronics etc. fields.



Graphic Overlays

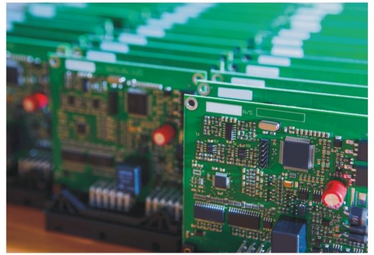


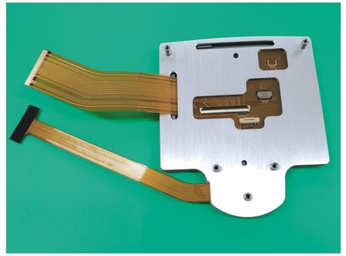
Printed Circuits

Electronics Manufacturing Service / Precision Electronics Assembly

LuphiTouch®can provide electronics design, PCBA development, components selection, components sourcing, SMT assembly, DIP assembly services. We also provide OEM, ODM, JDM and contract manufacturing services. Our experienced engineers can provide from structure, electronics design, PCBA development, function control software development to tools making, prototypes making and mass production of one-stop total solutions service for your user interface projects.







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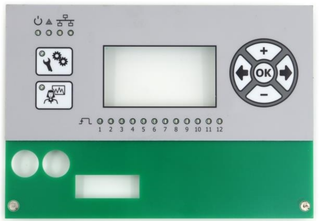
User Interface Subassemblies Custom Development

With a strong engineering R&D team and rich experiences, LuphiTouch® can provide clients with a variety of service models to meet the increasingly personalized needs of end consumers and the market. We support joint development with customers (JDM), OEM manufacturing, "0-1" on-demand custom development, and sample-copy development. For user interface projects, we provide one-stop services from structural design, PCBA development, software development, functional testing to tools making, small-batch trial production and mass production.







Applications

Our designed and manufactured user interface products are widely used for medical & healthcare, household appliances, intelligent kitchen, smart home, industrial control, automotive, aerospace, military & defense, marine, measuring instruments and meters, electrical control, IoT, new energy, consumer electronics etc. fields.



Automotive Capacitive User Interface Switch Panel



Household Appliances CapTouch Switch Panel



Medical Infusion Pumps Membrane Switch

