



Innovative
Solutions in Touch Screen Technology

Projected Capacitive Touch Screen Kits

Multi-Touch Projected Capacitive Sensors and Common Controller

Key Features

- ◆ Projected Capacitive
- ◆ 10-Point Multi-touch
- ◆ Glass-Glass Construction
- ◆ Excellent Optical Clarity
- ◆ Scratch-Resistant
- ◆ Water & Chemical Resistant
- ◆ Light Finger Operation
- ◆ Common Controller Design for Range of Screen Sizes
- ◆ 7" to 23.6"
27", 32" & 42" also available
- ◆ Broad OS Compatibility
- ◆ USB-HID Compatible
- ◆ Simplified Development
- ◆ Reduced MOQ & NRE
- ◆ Accelerated Time to Market

Applications

- ◆ Interactive Digital Signage
- ◆ Kiosks
- ◆ Industrial Control Panels
- ◆ Monitors

A D Metro's Projected Capacitive (PCAP) touch panel kits offer an easy and economical solution for original equipment manufacturers (OEMs) and system integrators to integrate the latest multi-touch technology into control panel, interactive digital signage and kiosk applications.

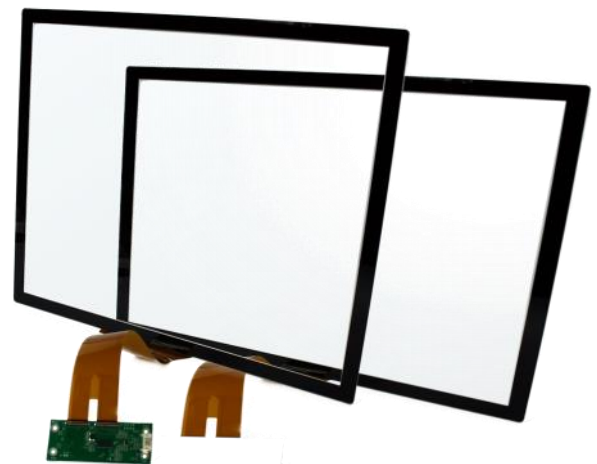
Users have become increasingly familiar with multi-touch and gesture control, and are now developing expectations of similar interactions

when engaging with commercial applications. For developers, multi-touch enables additional degrees of freedom in their design, enabling a richer and more sophisticated user interface experience.

A D Metro's projected capacitive touch panel kits provide an innovative multi-touch screen solution. Solutions that can reduce development costs and accelerate time to market in embedded applications, by addressing common development issues with PCAP technology.

Each touch panel kit offers a high quality glass-on-glass sensor with excellent optical clarity, bundled with a discrete controller board. The common controller board addresses a range of sensor sizes and formats. This allows the integration of the common controller board into a design that will support a range of screen sizes and formats, enabling greater flexibility during the product development cycle of your application. Since many standard size screen sensors and formats are available as commercial off the shelf (COTS) solutions, they can reduce the potential MOQ and NRE costs often associated with development of PCAP based solutions.

USB-HID compatibility, and the availability of drivers for a broad range of operating systems, simplifies development and accelerates time to market.



Projected Capacitive Datasheet

Sensor Mechanical Specifications

Detection Type Projected Capacitive
Size Range 7"-23.6"
Formats 4:3 or 16:9
Cover Glass Thickness 2mm
Cover Glass Hardness ≥ 6.5 Mohs
Sensor Glass Thickness 1.1mm
Total Sensor Thickness 3.3mm
Light Transmission $\geq 85\%$
Sealing Compatibility NEMA 4, 12; IP65

Touch Performance

Input Finger
Number of Touches 10
Touch Force 0g

Sensor Environmental Specifications

Operating Temperature -10°C to $+60^{\circ}\text{C}$, $\leq 85\%$ RH
Storage Temperature: -10°C to $+65^{\circ}\text{C}$, $\leq 85\%$ RH
Chemical Resistance: ATSM-D-1308 and ASTM-F-1598-95

Available Options—Enhancements

Cover Glass Thickness 0.7, 1.1, 3.0, 4.0mm
Sensor Glass Thickness 0.7mm
Chemically Strengthened Glass

Controller Specification

Part Number CC-02-102WL-02
Sensor Viewing Area Size Range 7"-23.6"
Operating Voltage Range 3.5-5.5V
Current—Operating Mode 60mA
Current—Suspend/Sleep Mode 40mA
Current—Sleep Mode $<5\text{mA}$
Operating Temperature -40°C to $+85^{\circ}\text{C}$
Storage Temperature -40°C to $+90^{\circ}\text{C}$
Relative Humidity 85%
Physical Dimensions 75x30x8.3mm

Touch Parameters

Number of Touches 10
Touch Refresh Rate $>100\text{Hz}$
Response Time $<25\text{ms}$

Regulatory

RoHS Yes

Interface

Interface USB 2.0
Powering USB

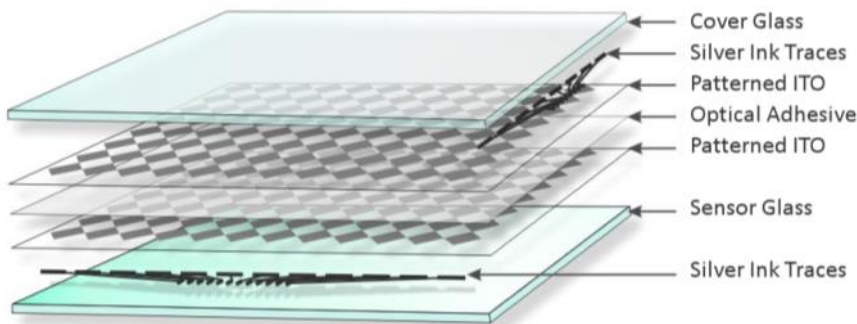
Operation System Compatibility

OS Driver Support
Windows XP, 7, 8, 10;
Windows CE.net/5.0/6.0/7.0
Windows Embedded
Linux Debian 5 Kernel 2.6.34.7
Android
Mac OS, Mac OS X

Also Available In Other Sizes:

Standard Sizes e.g. 27", 32", 42"

Custom Sizes Upon request



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Disclaimer: Technical specifications are provided for guidance and subject to change without notice. Specifications and performance may depend on sensor dimensions, selected options, installation and mounting. Please contact A D Metro for confirmation of the applicable specifications, individual sensor drawings, as well as installation and mounting best practices.

ABOUT US:

Established in 1988, A D Metro designs, manufactures and supplies innovative touch screen technology solutions for original equipment manufacturers (OEMs), system integrators and value added resellers. Everyday A D Metro's products are touched by millions of people around the world. Our ULTRA product line is the most durable resistive touch screen sensor available on the market and our projected capacitive (PCAP) touch screen solutions simplify design and accelerate time to market.

Contact us, for more information on our innovative touch screen products, enhancements and custom manufacturing solutions.

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