Projected Capacitive Touch Screen Kits

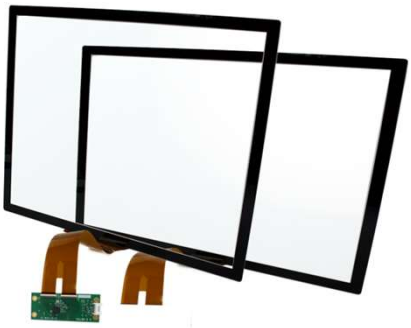
Multi-Touch Projected Capacitive Sensors and Common Controller

Key Features

- Projected Capacitive (PCAP)
- 1, 2, 5 or 10-Point Multi-touch
- 6” to 42” Sensors
- Glass-Glass Construction
- Excellent Optical Clarity
- Scratch-Resistant
- Water & Chemical Resistant
- Light Finger and Glove Operation
- Common Controller Design For 6” to 24” Screen Sizes
- Broad OS Compatibility
- USB-HID interface
- Backward Compatible with previous models of A D Metro’s controllers
- Mechanical Compatibility With A D Metro’s Argon Adaptive PCAP Controller
- Reduced MOQ and NRE.
- Simplified, Supported Development

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.

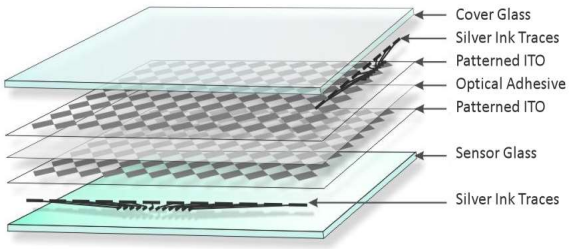
Users have become increasingly familiar with multi-touch and gesture control, and are now developing expectations of similar interactions when engaging with commercial applications. For developers, multi-touch enables additional degrees of freedom in their design, enabling a richer and more sophisticated 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 compact 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 controller compatible with a broad range of operating systems, simplifies development and accelerates time to market.

Common controller programming tool can reduce OEM Inventory and NRE.



www.admetro.com | sales@admetro.com | Tel. +1 613 742 5545 or 1 800 463 2353 (US, Can) | Fax. +1 613 742 5245

Projected Capacitive Touch Screen Kits

Datasheet

Sensor Mechanical Specifications

Detection Type ..... Projected Capacitive
Screen ..... Tempered glass screen
Cover Glass Hardness ..... ≥ 6.5 Mohs
Indium Tin Oxide (ITO)-coated Sensor Glass Thickness ... 3.3mm
Light Transmission [Clear] ..... ≥85%
Light Transmission [Anti-Glare Coated] ..... ≥90%
Sealing Compatibility ..... DO-160, NEMA 4, 12; IP65
Sensor Lifespan ..... No sensing contacts to wear out

Available Sensor Sizes

With Standard Controller ..... 6” to 24”
With Other A D Metro Controllers ..... 5” to 42”
Custom Sizes & Aspect Ratios ..... Contact A D Metro

Sensor Environmental Specifications

Operating Temperature ..... -10°C to +60°C, ≤90% RH
Storage Temperature ..... -10°C to +65°C, ≤90% RH
Chemical Resistance ..... ATSM-D-1308 and ASTM-F-1598-95
Electromagnetic Immunity..... FCC class B

Available Sensor Enhancements

Cover Glass Thickness 0.7, 1.1, 2.0, 3.0, 4.0mm
Sensor Glass Thickness 0.7, 1.1mm
Chemically Strengthened Glass
Custom Cover Glass Logos and Legends

Regulatory

CE/FCC Part 15 Class B Unintentional Radiation ..... Compliant
UL /MIL RF Immunity >10V/m ..... Yes
RoHS3 ..... Compliant
REACH ..... Unaffected

WARNING: These products can expose you to chemicals including Indium Tin Oxide and Nickel which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov.

Standard Controller Specification

Part Number Controller CC-02-102WL-03
Part Number USB-A controller cable, 2m 10-CARU-EXT
Operating Temperature .....-40°C to +85°C
Storage Temperature ..... -40°C to +110°C
Relative Humidity ..... 5% to 90% non-condensing
Physical Dimensions ..... 75mm x 30mm x 8.3mm
Requestable Firmware ..... Size, orientation & sensitivity

Interfaces

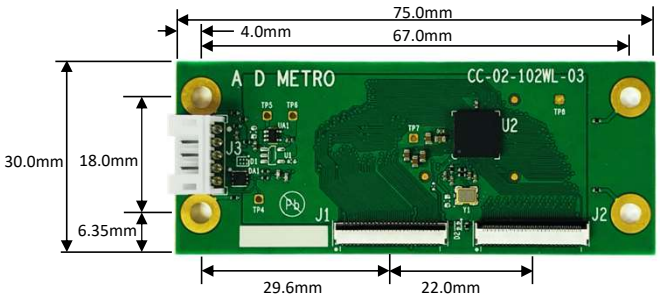
Sensor Interface ..... 2 * 51 FPC
adapters available for 68pin FPC and others
Host Interface ..... USB 2.0
Powering ..... Standard USB, (5.0V)
Typical Current Consumption 100mA

Operating System Compatibility

OS built in driver operation (USB2 HID compliant):
Windows 11, 10, 8.1, 7; Windows CE Embedded
Ubuntu and other Linux

Touch Performance

Input..... Finger-Tips
Touch Force 0g
Max Concurrent Touches ..... Set at 1, 2, 5 or 10
Touch Refresh Rate ..... >100Hz
Response Time ..... <25ms
Orientation ..... Learned during sensor adaption
Maximum Glove Thickness ..... Set at 1.5mm up to 4mm



1390 Star Top Rd.
Ottawa, ON, Canada K1B 4V7

ISO 9001:2015 REGISTERED

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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