



MicroTouch Multi Touch PCAP Systems Pro-Series

The ultimate solution for Multi Touch Displays 21.5" to 27"

The MicroTouch Pro-Series of PCAP Systems delivers an excellent interactive experience for applications requiring a higher level of performance and interaction. The MicroTouch Pro-Series System provides support for finger and thin gloved input as well as for leading active pens and passive styli, in addition to the ability to support the recognition of capacitive objects placed on the screen.

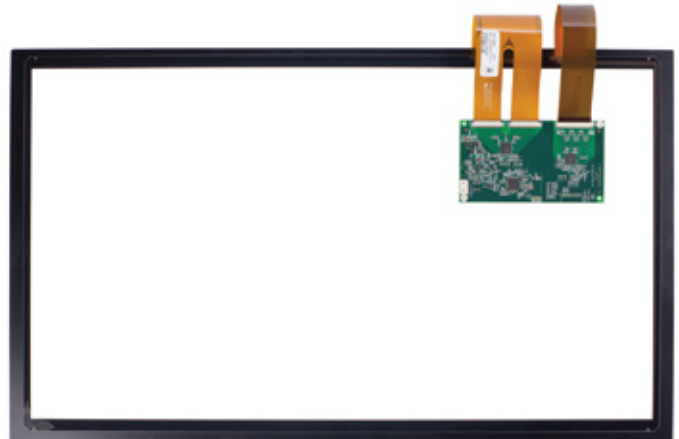
Designed by MicroTouch to be more durable, scalable and easy-to-integrate, this multi-touch system provides an excellent touch experience for demanding higher-end OEM and display applications across a wide range of sizes. The system's glass-to-edge design delivers the same modern design aesthetic users have come to expect from today's personal smart phones and tablets. Ideal for highly interactive applications requiring the highest level of precision & interaction and for applications requiring extended electronic specifications. The pro-series system offers display integrators and equipment manufacturers a high level of performance, a reliable, easy-to-integrate multi-touch system along with global technical support from MicroTouch.

Proprietary Metal Mesh Design

At the core of this new multi-touch system offering is an ultrafine metal mesh conductor design. This new technology overcomes design and optical challenges found in other PCAP solutions by utilizing advanced optical modelling techniques developed by 30 years of MicroTouch science and service to the display industry. The result is a sensor designed to work universally on 2K and 4K applications across a range of sizes, while maintaining high image quality and touch responsiveness.

Integrated MicroTouch™ Multi-Touch Controller PX5000 for Ultimate Speed and Responsiveness

Whether you're designing for multi-touch, multi-users, gestures or all of the above, the MicroTouch PX5000 controller has the speed and responsiveness to make your applications shine. The MicroTouch PX5000 ASIC is built on a proven and stable platform that display integrators and OEMs can rely on today and in the future. With support for Windows, Linux, OSx and Android, it is an excellent solution for your large format touch needs. All this is backed by world-class MicroTouch science, global supply chain capabilities and support.



Clarity Displays from Eurocoin

The MicroTouch Pro-Series can be delivered pre-integrated on the Open Frame Clarity display range. The Clarity range utilises industrial TFT components for maximum performance and durability and is designed to provide the ultimate in touch performance. All units come with VGA/DVI/DP signal inputs, USB Touch connector and 12v operation. Option to add PCAP style protective glass.



Features and Benefits

Advanced PCAP Capability	<ul style="list-style-type: none"> Resolves up to 20 Simultaneous Touch points while supporting palm rejection Capable of recognizing capacitive objects placed on screen Compatible with leading active pens and passive styli supporting multiple pens and fingers simultaneously
Proprietary Metal Mesh Design	<ul style="list-style-type: none"> Touchscreen and electronics tuned for precise, full multi-touch functionality, even at the edges and corners of the display Integrated standard systems offered from a single source ensures full system support and warranty Robust system solution tested to work with many display technologies provides integration and design flexibility Ultrafine mesh based on sophisticated MicroTouch optical modeling Scalable from 15–65 inches screen and electronics tuned for precise, full multi-touch functionality, even at the edges and corners of the display
Proprietary 3M Electronics	<ul style="list-style-type: none"> Reports simultaneous multi-touch events while supporting palm rejection at high speeds High signal-to-noise ratio provides input flexibility including thin gloves and fingertips Ultra-high definition touch for smooth draw capability and ability to distinguish multiple fingers in close proximity Custom ASIC design offers a standard protocol for any size between 15 and 65 inches and facilitates seamless application development
MicroTouch PCT with Chemically Strengthened Cover Glass	<ul style="list-style-type: none"> All glass front surface provides a sleek, modern aesthetic Durable cover glass unaffected by scratches, contaminants or items resting on the surface Enables leading edge industrial design solutions with a uniform narrow black border graphics design No surface components or bezel requirement limits debris build up which results in increased reliability Anti-glare for table-top applications or strong ambient lighting environments

MicroTouch™ Multi Touch Pro-Series PCAP Systems Spec

System Performance	
Touch Inputs	20 touches with palm rejection
Input Method	Finger, thin gloves, active pens, passive styli
Accuracy	>99% of true position
Resolution	4K x 4K
Linearization	Inherently Linear (only video alignment needed)
Tail Connection	Solderless design
Light Transmission	>88%

Electronics (Multi-Touch Controller PX5000)	
Communication	USB HID Digitizer
Operating Current	<206mA max
Power Connection	USB Vbus
Connectors	ZIF (touchscreen side), Molex (USB COM)
Touch Refresh Rate	Greater than 100 Hz (<10ms)
Touch Resolution	16K x 16K

Reliability	
Surface Obstruction	Withstands most surface contaminants
Chemical Resistance	ASTM-D-1308 and ASTM-F-1598-95
Operating Temperature	0°C to +50°C (up to 90% RH from 0°C to +35°C)
Storage Temperature	-10°C to +70°C (up to 90% RH from 0°C to +35°C (above +35°C, see specification))
Humidity	Up to 90% RH from 0°C to +35°C, non-condensing (above +35°C, see specification)

Mechanical	
Total Thickness	TBD
Graphics	Black border (standard design)
Display Size	Supports 15" to 27" (standard sizes available)
Durability	Non-active cover glass, no wear mechanism
Sealing	NEMA 4X/IP66, complete water-resistant and seal compatible
Regulatory	FCC-B, CE, IEC 60950 (Agency Approvals)
RoHS Compliant	Yes

System Warranty	
Three years on touch system	

Operating Systems Supported	
Native Driver Support	Windows XP, Vista, 7, 8; Linux Kernels 3.5 or later for Windows 7 compatible FW; Linux Kernels 3.12 or later for Windows 8 compatible FW
3M Driver Support	MT 7 (Windows XP, Vista, 7, 8, XPe, WEPOS, CE, Linux kernels 2.6 and 3.0)
3rd-party Driver	Mac OS (Intel)

Standard Part Numbers		
Sensor Only	Eurocoin P/N	3M P/N
21.5"	31132145	98-1100-0643-8
23.8"	31132346	98-1100-0891-3
27"	31132712	98-1100-0673-5
Controller Only		
21.5" to 23.8"	31130160	98-1100-0606-5
27"	31130171	98-1100-0579-4
Clarity PCAP Display		
21.5"	31161014	
23.8"	31161025	
27"	31161043	

