3M

Science.
Applied to Life.™

3M Touch Systems

3M™ PCAP Multi-Touch Displays 32-inch

Engineered for commercial applications

Introducing the 3M 32-Inch Multi-Touch Display. This display offers a smartphone-like touch experience in a commercial display specially engineered for 24/7 operation. With features like high-performance projected capacitive multi-touch technology, a sophisticated bezel-free design for a truly uncompromised touch experience, an active thermal management system to ensure cool-to-the-touch performance in all display orientations, finger and pen input and a 3-year warranty, this display delivers a premium interactive experience to teach, inspire, inform and sell.

Proprietary Ultrafine Metal Mesh Design

At the core of this display is an integrated ultrafine metal mesh conductor — a sensor unlike other known ultrafine metal mesh technologies in the marketplace today. This new technology overcomes design and optical challenges found in other projected capacitive technology (PCT) solutions by using advanced optical modelling techniques developed by 30 years of 3M 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, including planar (curved) screens, while maintaining high image quality and touch responsiveness.

✔ **Fully-Integrated Chassis Solution**

✔ **Exceptional Touch Performance**

✔ **Robust, Durable and Dependable**

✔ **Consumer-Driven Design**

✔ **Stable Life-Cycle Product Availability**

Suggested Applications

Public Venues
● Shopping Malls
● Museums
● Event Centers
● Campuses

Branded Retail
● Automotive Showrooms
● Luxury Retail
● Fashion
● Upscale Department Stores

Sample Applications
● Wayfinding/ Information
● Endless Aisle
● Educational Exhibits
● Entertainment
● Assisted Selling

Feature	Benefit
Proprietary Ultrafine Metal Mesh Design	● Touchscreen and electronics tuned for precise, full multi-touch functionality, even at the edges and corners of the display ● Robust system solution tested to work with many display technologies provides integration and design flexibility ● Ultrafine metal mesh design based on sophisticated 3M optical modeling
Proprietary 3M Electronics	● 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
3M PCAP Chemically Strengthened Cover Glass	● 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 ● Easy-to-clean, virtually "no wear" surface provides operation unaffected by surface scratches ● Smooth edge finish for improved durability and handling safety ● Anti-glare for table-top applications or strong ambient lighting environments

3M™ PCAP Multi-Touch Display C3266PW Specifications (32-Inch)

Functional Specifications — Display Details

Display Colors	16.8 million
Pixel Pitch	0.364mm x 0.364mm
Brightness with touch sensor (max.)[1]	500cd/m2 (nit) typical 450cd/m2 (nit) typical
Contrast Ratio[2]	3000:1 typical
Viewing Angle	178° (Vertical/Horizontal)
Video Response Time[3]	10 ms typical
Control Type	OSD
Native Resolution	1920 × 1080

1. Brightness measured on a display with 3M™ Projected Capacitive sensor.
2. Measured at a contrast ratio of 10.
3. Gray to Gray.

Functional Specifications — Touch Details

Number of Touch Points	80 points with palm rejection
Touch Point Speed[4]	10 milliseconds
Input Type	Finger, thin glove
Touch Communication	Auto detecting, USB and RS232 (Serial)
Operating System Support	Windows 10/8/7/Vista/XP, Linux, Mac OS and Android

4. Up to 20 touches.

On Screen Display (OSD) Panel

POWER
SOURCE
UP
DOWN
+
MENU

Connections

Audio In/Out | VGA | DVI | HDMI | Display Port | Serial In/Out | Serial Touch | USB Touch | AC Input | On/Off

Physical Specifications — Product Details

Operating Environment	0 to +40°C, relative humidity, non-condensing 85%
Storage Environment	-10 to +60°C
Video Input	DVI, VGA, HDMI (HDCP), Display Port (HDCP)
Audio	5w + 5w @ 8Ω
VESA Pattern	200×200
Power Supply	Internal 110/220 VAC
RoHS Compliant	Yes
Agency Approvals	FCC-B, CE, cTUVus, CCC, RCM, PSE, CB
On-Mode Power Consumption	42 W
EU Energy Efficiency Class	B
EU Ecodesign Peak Luminance Ratio	67%
Warranty	3 years

Physical Specifications — Dimensions and Weight

Physical Dimensions (outer)	759 × 454 × 66mm 29.9 × 17.9 × 2.6 in.
Display Area (W x H) (viewing area)	698.40 × 392.85mm 27.5 × 15.5 in.
Packaging (W x H x D)	850 × 683 × 211mm 33.46 × 26.89 × 8.31 in.
Display Weight	12.70kg / 28 lbs.
Packaging/Display Weight	17.5kg / 38.6 lbs.

Ordering Information

Part Number	98-1100-0728-7

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