

# 3M™ MicroTouch™ Display M1700SS

## The Clear Choice for Optics, Durability, and Touch Stability

The 3M MicroTouch Display M1700SS (17"), a purpose-built, surface capacitive touch display, provides a cost-competitive touch alternative to 5-wire resistive display solutions. The display offers a stable base, highly durable touch screen, brilliant optics and a hidden cable management system, all in an elegant and simple-to-use design. This display easily integrates into numerous point-of-sale, PC, and thin client systems making it ideal for applications requiring long life, 24/7 uptime, and the assurance of a 3-year "unlimited touches" warranty. Activated only by human touch, the M1700SS display eliminates inadvertent or false touches from jewelry, clothing, or handheld objects, making it the clear choice for applications where reliability is key.

### The Clear Choice

The M1700SS display utilizes an all-glass surface capacitive touch sensor and proprietary 3M™ ClearTek™ Hard Coat to deliver superior durability, 91.5% light transmission, 270-nit brightness (with touchscreen), 500:1 contrast ratio, and an ultra-fast 5.4 millisecond touch response time.

### Rock-solid Display Base

The M1700SS display is designed with touch in mind which results in rock-solid touch stability even under rapidly repeating and/or heavy tapping. Most displays that were not designed for touch can wobble and/or flex, potentially causing a double touch that can increase operator error and create an unsatisfactory customer experience. The M1700SS display has the flexibility to attach peripheral devices to the left or right of the display bezel and even maintains its touch stability when locked in position at display angles ranging from 0 to 90 degrees.

### Cost-Effective

The M1700SS display employs an all glass touch screen that has no moving parts, unlike 5-wire resistive solutions that rely on compression of the film and conductive coatings to recognize touch. Since force is required to activate a resistive touch screen, it is susceptible to



mechanical wear and the appearance of "Newton Rings" which can potentially reduce product life and optical performance. This rugged M1700SS touch display continues to operate in the presence of on-screen contaminants and carries an "unlimited touch" warranty for a period of 3 years. In addition, 3M owns the design and tooling for the display thereby increasing control over the product life cycle and decreasing the possibility for an external change.

### Recommended Applications

- Point-of-Sale (POS)
- Point-of-Service
- Hospitality
- Point-of-Information (POI)
- Security Systems
- Digital Signage
- Home Automation
- Financial

| Feature                       | Benefit   |
|-------------------------------|---|
| All-Glass, One-Layer Solution | <ul style="list-style-type: none"> <li>• Provides 91.5% light transmission as compared to 80% for certain 5-wire resistive solutions</li> <li>• Unaffected by UV light that can cause degradation of optics and yellowing of film-based touch sensors over time</li> <li>• No moving parts improves reliability</li> <li>• Inherently free from the appearance of "Newton Rings"</li> </ul> |
| 3M ClearTek Hard Coat         | <ul style="list-style-type: none"> <li>• Proprietary coating is uniformly heat infused into the glass creating a non-permeable barrier for increased scratch and chemical resistance</li> <li>• Low surface energy coating promotes smooth finger drag</li> <li>• Unaffected by surface contaminants</li> </ul>   |
| Total Touch Solution          | <ul style="list-style-type: none"> <li>• Unlike other touch display manufacturers that utilize 3rd party touch sensors, electronics, and or software in their design, 3M owns, understands, and warranties the entire system for an unlimited amount of touches for 3 years</li> </ul>  |

# 3M™ MicroTouch™ Display M1700SS Specifications

## Functional

|   |   |
|---|---|
| LCD Technology                            | TFT, Active Matrix  |
| Display Colors                            | 16.2 million  |
| Pixel Pitch                               | .264 mm   |
| Brightness without touch screen           | 300 cd/m2 (nit) typical   |
| Brightness with touch screen <sup>1</sup> | 270 cd/m2 (nit) typical   |
| Contrast Ratio                            | 800:1 typical   |
| Video Response Time                       | 9 ms typical  |
| Touch Response Time                       | 5.4 ms typical  |
| Viewing Angle (from center)**             | Horizontal: ±80 degrees typical<br>Vertical: ±80 degrees typical  |
| Front Panel Buttons                       | Menu, Select, Adjust, Power   |
| On-Screen Display Controls                | Brightness, Contrast, Horizontal/Vertical Position, Clock, Phase, Auto Configuration, Color, Lockable OSD |
| Maximum Resolution                        | 1280 x 1024   |
| Operating Environment                     | Operating Temperature: 0 to 40 degrees C<br>Relative Humidity, Non-condensing 80%                         |
| Storage Environment                       | -10 to +60 degrees C  |



Peripheral Attachment System allows use of multiple peripheral devices.



"Cable-Through-Bottom" routing option for seamless counter or wall installation

## Physical

|   |  |
|---|--|
| Dimensions (WxHxD)<br>(Depth includes base) | 15.9 x 16.3 x 9.7 inches<br>405 x 413.3 x 247 mm |
| Display Area (WxH)                          | 337.9 x 270.3 mm<br>13.3 x 10.6 inches           |
| Video Cable Connector                       | 15-pin D-sub, and DVI                            |
| Power Supply                                | 12V DC Power Supply                              |
| Power Savings <sup>2</sup>                  | DPMS, VESA Compliant                             |
| Power Consumption                           | <40W, Normal Operation                           |
| Backlight Life                              | 40,000 hrs. typical                              |
| Weight (Net)                                | 8.6 kg/18.9 lbs.                                 |
| RoHS Compliant                              | Yes  |
| Agency Approvals                            | FCC B, CE, UL/cUL, C-Tick, CCC                   |
| Mounting Options                            | VESA mounting compatible, 100 mm                 |
| Multimedia                                  | Full multimedia capability                       |
| Color Option                                | Black  |
| Controller Option                           | Serial, USB                                      |
| Warranty                                    | 3 years of unlimited touches                     |



Wall-mounted configuration

## Standard Part Numbers

| Part Number  | Description |
|--------------|-------------|
| 11-91378-225 | USB         |
| 11-91378-227 | Serial      |

\*\* Measured at a contrast ratio of 5

(1) Brightness measured using 3M MicroTouch Sensor SCT3250

(2) DPMS: Display power management signaling for reduced power consumption during non-use.

## 3M Touch Systems

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