

# 3M™ MicroTouch™ Display C1700SS

## The Clear Choice for Optics, Reliability, and Ease of Integration

The 3M MicroTouch Display C1700SS (17"), a robust metal chassis display using 3M's industry-standard surface capacitive touch technology, provides a durable, optically-enhanced, and cost competitive alternative to 5-wire resistive displays used in industrial automation equipment and kiosk enclosures. The C1700SS display offers multiple mounting options to make integration easy and a variety of bezel options for sealing against liquids and other contaminants.

### The Clear Choice

The C1700SS display utilizes an all-glass surface capacitive touch sensor with the proprietary 3M™ ClearTek™ Hard Coat to deliver superior durability, 91.5% light transmission, 225-nit brightness (with touch sensor), 500:1 contrast ratio and an ultra-fast 5.4 millisecond touch contact time.

### Multiple Mounting and Bezel Options

Multiple mounting and bezel options enable customers to meet their application needs at minimal cost. The C1700SS display offers a 75mm VESA pattern to provide arm mounting capability for industrial automation equipment. This minimizes the capital expenditure needed to upgrade equipment with touch. L-brackets are included for installations requiring the touch display to be fully enclosed.

The C1700SS display offers two bezel options. The Slimline bezel (optional) is flush with the edges of the display and is ideal for arm-mounted applications and is ideal for solutions that require a NEMA 1 seal rating. The Industrial Flanged bezel (optional), a metal-gasketed bezel, enables kiosks or others enclosures to support NEMA 4X / IP66 seal ratings.

### Cost Effective

The C1700SS display uses an all-glass touch sensor with no moving parts, whereas 5-wire resistive solutions rely on compressing the top film layer against a conductive coating to recognize touch. Since force is



required to activate a resistive touch sensor it is susceptible to mechanical wear and the appearance of "Newton Rings" which can potentially reduce product life and optical performance.

The C1700SS touch display operates reliably in the presence of on-screen contaminants and carries a 3-year "unlimited touches" warranty.

### Recommended Applications

- Industrial Automation
- Self Service
- Hospitality
- Security Systems
- Point-of-Information (POI)
- Home Automation

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 C1700SS Specifications

## Functional Features

LCD Technology	TFT, Active Matrix
Display Colors	16.2 million
Pixel Pitch	.264mm
Brightness without touch sensor	250 cd/m <sup>2</sup> (nit) typical
Brightness with touch sensor (max.) <sup>1</sup>	225 cd/m <sup>2</sup> (nit) typical
Contrast Ratio	1000:1 typical
Video Response Time	5 ms typical
Touch Response Time	5.4 ms typical
Viewing Angle <sup>2</sup>	Horizontal: +/-80 degrees typical Vertical: +/-80 degrees typical
Control Type	OSD
On Screen Display Controls	Standard rear mounted controls.
Maximum Resolution	1280 x 1024
Operating Environment	0 to +40 degrees C Relative Humidity, non-condensing 90%
Storage Environment	-25 to +60 degrees C



With optional Slimline Bezel  
(Part Number: 2709122)



Optional Industrial Flange Bezel  
(Part Number: 5021104)

## Physical Features

Physical Dimensions (Enclosure) (WxHxD)	405.7 x 335.1 x 49 mm 15.98 x 13.18 x 1.93 inches
Display Area (WxH)	337.9 x 270.3 mm 13.3 x 10.6 inches
Video Cable Connector	15 Pin D-Sub
Power Supply Internal	12V DC Power Supply
Power Savings	DPMS, VESA Compliant
Power Consumption	30 watts normal operation
Backlight Life	50,000 hrs. typical
Weight	4.6kg/10.1 lbs
RoHS Compliant	Yes
Agency Approvals	FCC B, CE, UL/cUL
Mounting Options	Set of 2, side or top/bottom mounting brackets, VESA 75 mm
Warranty	3 years of unlimited touches



Mounting L-brackets (standard)

## Standard Part Numbers

Part Number	Description
11-4945-227-00	Serial (no bezel)
11-4945-225-00	USB (no bezel)

(1) Brightness measured on a display with 3M™ MicroTouch™ Sensor SCT3250 surface capacitive sensor.

(2) Measured at a contrast ratio of 10.

NOTE: Mechanical Drawings available at [www.3m.com/touch](http://www.3m.com/touch)

### 3M Touch Systems

Subsidiary of 3M Company  
501 Griffin Brook Park Drive  
Methuen, MA 01844  
U.S.A.

1-888-659-1080

[www.3m.com/touch](http://www.3m.com/touch)

**RoHS Directive compliant:** In accordance with European Directive 2002/95/EC, "RoHS Directive compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M. (9/06)

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➤ Sales :

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Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)