

# 3M™ MicroTouch™ Display C1500SS

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

The 3M MicroTouch Display C1500SS (15"), 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 C1500SS display offers multiple mounting options to make integration easy and a variety of bezel options for sealing against liquids and other contaminants. A remote on-screen display module helps simplify any changes to the display image during installation or system maintenance.

### The Clear Choice

The C1500SS 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 screen), 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 C1500SS 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 (standard) or a VESA mounting bracket (optional) are available for installations requiring the touch display to be fully enclosed.

The C1500SS display offers three bezel options. The Slimline bezel is flush with the edges of the display and is ideal for arm-mounted applications. The Contour Flanged bezel provides a lip to cover the air gap between the touch display and the enclosure opening. These two plastic bezels are ideal for solutions that require a NEMA 1 seal rating. The Industrial Flanged bezel, a metal gasketed bezel, enables kiosks or others enclosures to support NEMA 4X / IP66 seal ratings.



### Cost Effective

The C1500SS 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 C1500SS 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 C1500SS Specifications

## Functional Features

LCD Technology	TFT, Active Matrix
Display Colors	16.2 million
Pixel Pitch	.297 mm
Brightness without Touch Screen	250 cd/m <sup>2</sup> (nit) typical
Brightness with Touch Screen (max.) <sup>1</sup>	225 cd/m <sup>2</sup> (nit) typical
Contrast Ratio	500:1 typical
Video Response Time	12 ms typical
Touch Response Time	5.4 ms typical
Viewing Angle <sup>2</sup>	Horizontal: +/-75 degrees typical Vertical: +/-75 degrees typical
Control Type	OSD
On Screen Display Controls	Standard rear mounted controls. Optional remote unit.
Maximum Resolution	1024 x 768
Operating Environment	0 to +40 degrees C Relative Humidity, non-condensing 90%
Storage Environment	-20 to +60 degrees C

## Physical Features

Physical Dimensions (Enclosure) (WxHxD)	350.4 x 277.3 x 50 mm 13.80 x 10.92 x 1.96 inches
Display Area (WxH)	304.1 x 228.1 mm 11.9 x 8.9 inches
Video Cable Connector	15 Pin D-Sub
Power Supply Internal	12V DC Power Supply Also accepts 110/220V AC
Power Savings	DPMS, VESA Compliant
Power Consumption	<25 watts normal operation
Backlight Life	50,000 hrs. typical
Weight	4.2kg/9.2 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. unlimited touches

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

(2) Measured at a contrast ratio of 5.

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

### 3M Touch Systems

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**Slimline Bezel**  
(Included with standard product)  
350.4 x 277.3 mm  
13.80 x 10.92 inches



**Optional Remote On-screen Display Module**  
(Part number: 30114)



**Contour Flanged Bezel Option**  
(Part number: 29369)  
377.8 x 301.8 mm  
14.87 x 11.88 inches



**Optional Heavy Duty Mounting Bracket**  
(Part number: 30113)



**Industrial Flanged Bezel Option**  
(Part number: 29368)  
411.0 x 316.9 mm  
16.18 x 12.48 inches

## Standard Part Numbers

Part Number	Description
11-71315-225-01	USB with Slimline Bezel
11-71315-227-01	Serial with Slimline Bezel
11-71315-225-03	USB with Contour Bezel

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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