

SOTM19A-S001 Product information



The SOTM19A-S001 is the 19 inches model of the SOTM Touch screen solution from Sensitive Object. Using the Reversys™ technology, based on the recognition of acoustic waves generated by the user touch, the SOTouch® products combine the benefits of resistive, capacitive and SAW technologies.

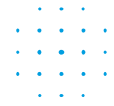
Key benefits :

- Multiple activation modes (finger, gloved hand, stylus or credit card)
- Very high accuracy
- Film free, scratch permissive surface
- Top optical characteristics allow use of low-powered and cost optimized displays

The SOTM19A-S001 product is best suited for integration into systems such as:

- Point of Sales
- Kiosks
- Automatic Teller Machine
- Medical
- Industrial
- Consumer Electronics
- etc.





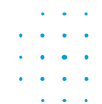
Product Data

General performances

Activation method	Finger, gloved hand, stylus, credit cardE
Palm rejection	Yes
Accuracy	Max error <1% of diagonal size
Resolution	Scalable from low to very high resolution (higher than 4096 x 4096)
Seals	Internal and external gaskets provided
Max response time	40ms

Optics and Mechanics

Light transmission	Pure glass, light transmission >90%
Surface finish	Anti-glare (front side)
Sealability	Up to IP64
Mounting	See Product Manual for further details
Diagonal size	19.1" (operating area)
Total dimensions	394.3 x 319mm
View area	380.3 x 305mm
Operating area	378.3 x 303mm
External seal thickness	Thickness 3 mm uncompressed (30% recommended compression), width 6mm
Internal seal thickness	Thickness 1.6mm, width 4mm
Technical zone	7mm
Glass thickness	3.88mm (+/- 0.1mm) excluding tail (tail thickness lower than 1mm, see integration manual)
Touch activation force	0.5N (dynamic)
Tail mechanics	14 mm width, 250 mm length, 9 o'clock positioning
Tail shielding	2 sides shielding



Environmental

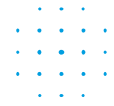
Operating temperature range	-20 / +55 °C
Storage	-40 / +70 °C
Humidity	93%, 40°C, 240 hours
Noise immunity	Up to 80dB
Regulatory	CE / FCC-B / CISPR22 Class B / CB Certificate (EN 60950-1 / IEC 60950-1 / UL 60950-1 / CAN/CSA C22.2 N°. 60950-1) / RoHS Compliant

Durability

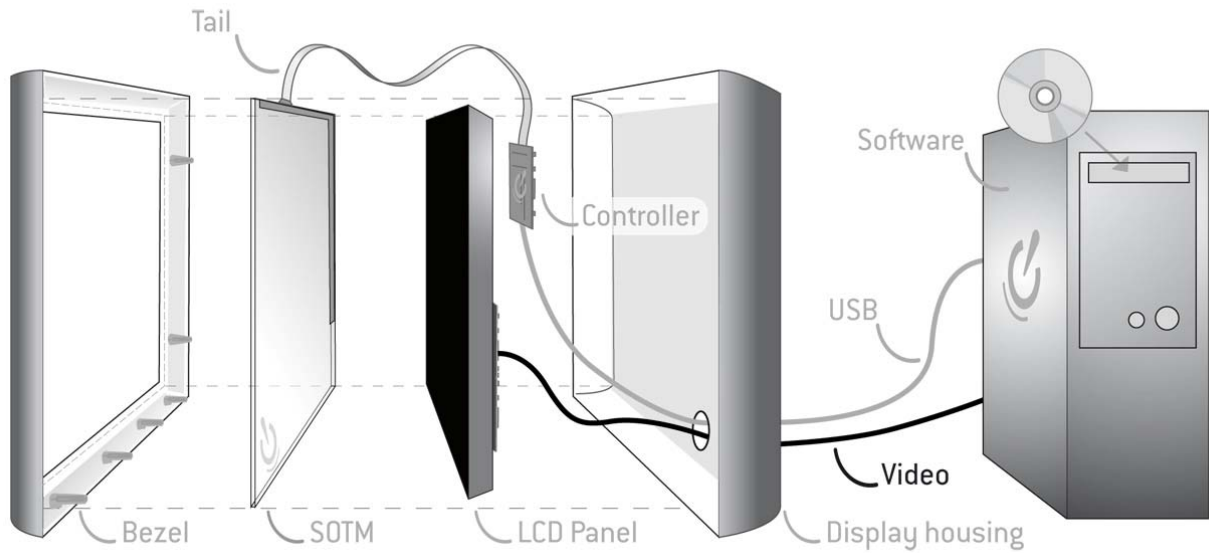
Touch life	>50 millions activation on a single location
Calibration	No recalibration against time
Surface chemical resistance	Glass resistance (tea, ink, Windex, beer, toluene, acetone, ethyl acetate, gasoline, ammonia based products)
Surface state	Dirt, liquids, other external elements on the active surface does not cause functional failure
Surface hardness	MOHS hardness 7 or higher is required to induce a scratch. However, this will not cause functional failure.

Controller Information

PC connection	USB MiniB cable (not provided)
Tail connection	Latch type, face down, 2.54mm pitch
MTBF	>760 000 hours
PCB dimensions	62 x 33 x 1.6mm
Operating temperature	0° to +55°C
Storage temperature	-40° to +70°C
Relative Humidity	+40°C 93% RH (Non-Condensing)



Product Structure



The SOTM19A – S001 touch screen solution is composed of:


- A touch panel
- A USB controller
- A driver software
- An acoustic database




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The illustrated uses of Sensitive Object's technology and products are examples only. Actual use and compatibility with other products may vary. The products and information displayed herein are subject to change without notice.

