SHARP

M651-SST
LCD 65" Message series ShadowSense™ Interactive Display

Datasheet

Premium interactive experiences

For users of self-service kiosks, an effective user experience is essential in order to maintain customer satisfaction and loyalty. An intuitive and user-friendly touch behaviour is crucial to eliminate frustration and allow the user to concentrate on the buying process and not on the technology.

The 65" M651-SST 10-point touch display intelligently ignores accidental touches yet provides accurate and reliable touch performance even when in high ambient light to facilitate an eye-pleasing touch experience. The Open Modular Intelligence (OMI) approach provides tailor-made interactive solutions, where scalable computing power such as Raspberry Pi compute modules or SDM Slot-in PCs are seamlessly embedded into the display.

For interactive way finding signage, the M651-SST multi-touch display perfectly serves your end customers whilst increasing your ROI and securing your investment into a brighter future.

Benefits

ShadowSense™ Touch Technology – market-leading touch performance for speed and accuracy, that is immune to ambient light and provides advanced features such as object size and shape recognition, palm rejection, touch size and speed control, hover distance control, and liquid rejection on the touch surface.

Avoid Touch Frustration – satisfy users with the highest touch point accuracy, filtering out misleading touch-sizes and avoiding ghost touches even in high ambient light operation.

Seamless Touch Integration – work hand-in-hand with multi-touch applications while using the 10 touch points of ShadowSense™ touch technology in real-time collaboration.

Simple Plug & Play – no need to install any drivers on the host PC for all major operating systems.

Future Ready with Open Modular Intelligence Expansion – upgrade the power of your display at any time by seamlessly integrating one of Sharp's options for SDM Slot-in PCs, Raspberry Pi compute modules or signal interfaces for content feed and computing.

Mission-critical 24/7 ready operation – the meticulous selection of industrial-grade components and careful design focused on demanding usage scenarios accompany an impressive and continuous viewer experience.

Product Information

Product Name	Sharp M651-SST
Product Group	LCD 65" Message series ShadowSense™ Interactive Display
Order Code	M651-SST

Display

Panel Technology	IPS with Edge LED backlights
Screen Size [inch/cm]	65 / 163.9
Aspect Ratio	16:9
Brightness [cd/m^2]	500
Contrast Ratio	≥ 8000:1 [1]
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Supported Orientation	Landscape; Portrait; Face Up [2];

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	4096 x 2160;	1900 x 1200;	1400 x 1050;	1280 x 720;
	3840 x 2160;	1650 x 1050;	1366 x 768;	1024 x 768;
	1920 x 2160;	1600 x 1200;	1360 x 768;	
	1920 x 1080;	1440 x 900;	1280 x 1024;	

Synchronisation Rate

Horizontal Frequency [kHz]	26 - 91.1
Vertical Frequency [Hz]	23 - 86

Connectivity

Input Video Digital	1 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)
Input Audio Digital	1 x DisplayPort; 2 x HDMI
Input Control	LAN 100Mbit; remote control wire (3,5mm jack); RS232
Output Audio Analogue	1 x 3,5 mm jack
Input Detect	Custom; First; Last

Touch

Touch Technology	ShadowSense™ Touch
Number of Touches	Real multi-touch up to 10 touches
Response Time [ms]	6 to 8
Accuracy [mm]	< 1.5
Touch Resolution	12 bit (4096 x 4096)
Data Interface	USB-HID
Supported Operating Systems	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista, Mac OS X *(note some Mac O/S versions need additional drivers to support multi-touch)*
Ambient Light Rejection	Up to full sunlight (approx.. 100,000lux)

Open Modular Intelligence

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 66 W
Compute Module Slot	RPi4 Compute Module

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption [W]	120 shipping
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)
Power Management	VESA DPMS
Power Supply	100-240 V AC; 50/60 Hz;

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 80
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	1,511 x 890 x 79
Weight [kg]	63
Bezel Width [mm]	32 (left and right); 32 (top and bottom)
VESA Mounting [mm]	400 x 400 (FDMI); 4 holes; M8
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	1,736 x 1,033 x 280
Packaging Weight [kg]	75 (approx.)
Colour Bezel	Pantone 426M (black)
Material	Metal

Available Options

Accessories	Presence Sensor (KT-RC3); SDM Computers (from Entry to Enterprise); SDM Interface board (including HD-base-T and 12G-SDI); Raspberry Pi Compute Module Kit

Green Features

Energy Efficiency	Energy consumption: 131 kWh/1000 h; Energy efficiency class: G; LED backlight
Ecological Standards	EnergyStar 8.0

Additional Features

Safety and Ergonomics	CE; EMC Class B; Energy Star 8; FCC Class B; RoHS; VCCI; RCM
Pixel Failure Class	ISO 9241-307, Class 1
Audio	Integrated Speakers (10W stereo)
Shipping Content	Display; HDMI Cable; Power Cable; Remote Control; 2x AAA batteries; Setup Manual
Warranty	3 years warranty incl. backlight; additional services available; optional 5 year warranty extension [3]
Operating Hours	24/7
External Control	AMX NetLinx Support; ASCII Control Commands; Crestron Connected; Crestron RoomView; HDMI CEC; HTTP Browser; PJLink; Scheduled Timer; SNMP
Remote Management	Automated Email Alerts; NEC NaViSet Administrator 2
Security	Disable HW Buttons; Disable IR Functionality; Emergency Notification

[1] out of the box conditions, local dimming ON

[2] adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

[3] please refer to terms and conditions of warranty extensions

VCCI	CE	RoHS	RCM	FCC Class B

For more information:

www.sharp.net.au   VisualSolutions@sharp.net.au   1300 135 022