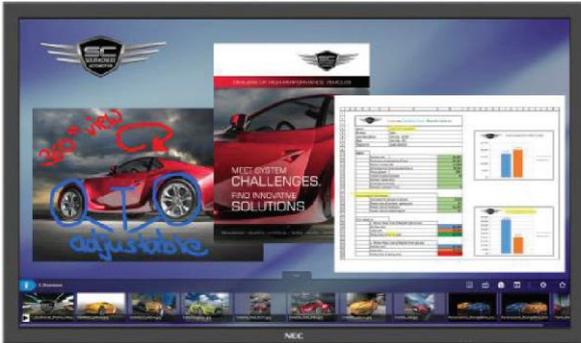


Product Information Sheet

M651-SST (ShadowSense™)

LCD 65" Large Format ShadowSense™ Touch Display



The Team Mate for Self-Service Kiosks and POS Applications

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 NEC'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 | M651-SST |
| Product Group | LCD 65" Large Format ShadowSense™ Touch 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/m²] | 500 |
| Contrast Ratio (typ.) | ≥ 8000:1 |
| Viewing Angle [°] | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |
| Response Time (typ.) [ms] | 8 |
| Haze Level [%] | Pro (28) |
| Supported Orientation | Landscape; Portrait |

Synchronisation Rate

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

Resolution

| | |
|-----------------------|---|
| Native Resolution | 3840 x 2160 |
| Supported Resolutions | 4096 x 2160; 1900 x 1200; 3840 x 2160; 1650 x 1050; 1920 x 2160; 1600 x 1200; 1920 x 1080; 1440 x 900; |

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 3.5mm jack |
| Input Detect | Custom; First; Last |

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; internal |

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] | 32.0 (left and right); 32.0 (top and bottom) |
| VESA Mounting [mm] | 400 x 400 (FDMI); 4 holes; M8 |
| Ingress Protection | IP5x (front); IP2x (back) |

Touch

| | |
|----------------------------|--|
| Touch Technology | ShadowSense™ Touch |
| Number of Touches | Real multi-touch up to 10 touches |
| Response Time [ms] | 6 to 8 |
| Touch Method | Gloves; Stylus (≥ 6 mm) |
| Supported Operating System | Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista, Mac OS X |
| Data Interface | USB-HID |
| Accuracy [mm] | < 1.5 |
| Touch Resolution | 12-bit (4096 x 4096) |
| Ambient Light Rejection | Up to full sunlight (approx. 100000 lux) |

Green Features

| | |
|-------------------|---|
| Energy Efficiency | Energy consumption: 116 kWh/1000 h; Energy efficiency class: G; LED backlight |
|-------------------|---|

Additional Features

| | |
|-----------------------|--|
| Safety and Ergonomics | Energy Star 8.0; RCM |
| Pixel Failure Class | ISO 9241-307, Class 1 |
| Audio | Integrated Speakers (10 W + 10 W) |
| Shipping Content | Display; HDMI Cable; Power Cable; Remote Control; User Manual |
| Operating Hours | 24//7 |
| External Control | AMX NetLinx Support; ASCII Control Commands; 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 |

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