SHARP

PN-LM551
PN-LM431
AQUOS BOARD® Interactive Display Systems

AQUOS BOARD®

4K
3840 × 2160 Pixels

PN-LM Series mid-size interactive displays

Multi-Purpose for Interactive Engagements

For best-in-class touch performance and value, the Sharp LM Series commands feature-rich professional capabilities for small meeting spaces and interactive signage applications. An integrated System on Chip (SoC) with Android 14 CTS-compliant Operating System offers the most up to date features and security for seamless out-of-the-box collaboration.

Boosting creativity in group collaboration, the Sharp LM Series features intuitive Pen-on-Paper writing, a built-in whiteboard, annotation overlay mode and Windows Ink support. Using the on-board EShare app, content can be wirelessly shared from any personal device to the display without the need for apps or dongles. A single USB-C cable transmits data, video, audio and power between notebook and display enabling simple and seamless BYOD workflows.

Featuring a 4-sided uniform slim bezel design, the Sharp LM Series supports installations in landscape, portrait, and tilted desk (low-angle) orientations. Dedicated features including hideable side bars, application lock, and a built-in web browser make the Sharp LM Series an ideal choice for budget-conscious interactive signage applications.

Wide Range of Pre-Installed Applications

Whiteboard
Built-in whiteboard app for note taking and brainstorming during meetings.

Wireless Screen Sharing (EShare)*
Wirelessly share content from your device to the display, and from the display to multiple devices simultaneously.

Office & PDF Viewer (OfficeSuite)**
Display Office and PDF files from USB memory stick without connecting a PC using the OfficeSuite app.
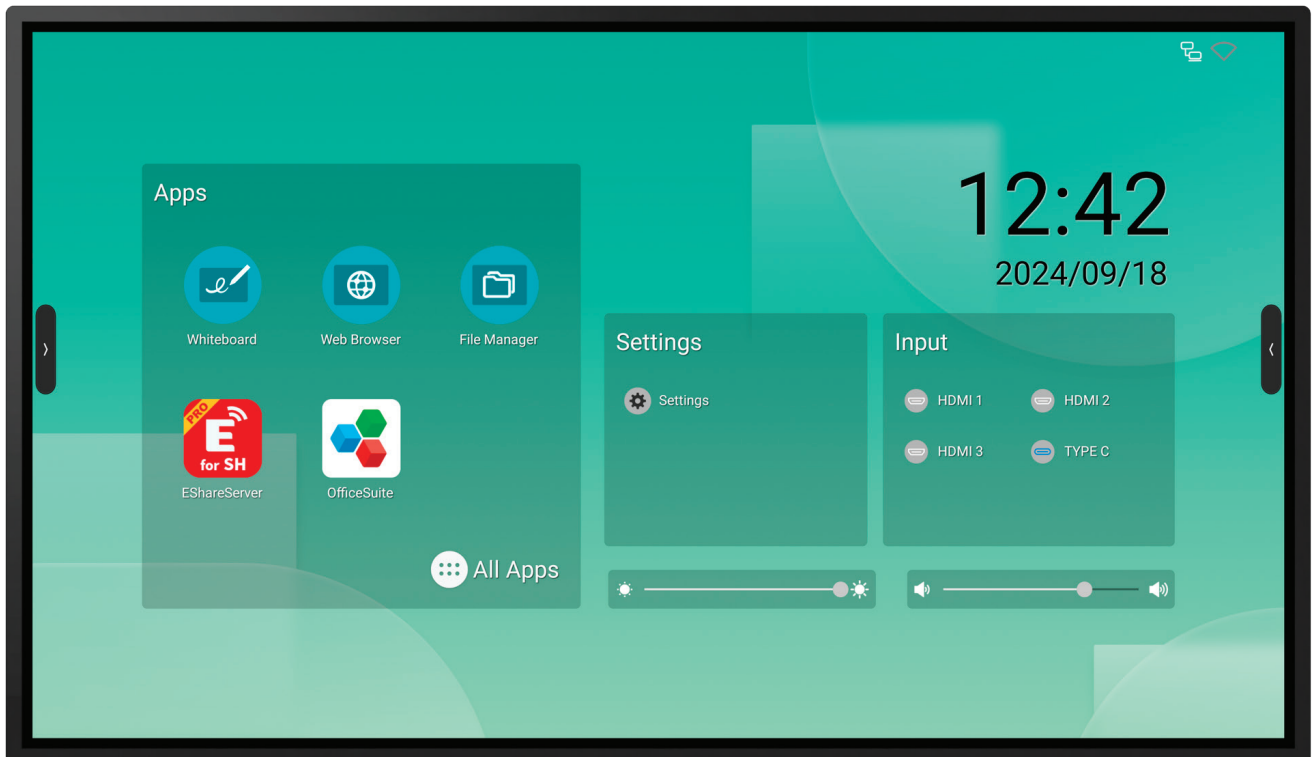
Web Browser
Experience seamless browsing with a built-in web browser, allowing you to effortlessly explore the web without the need for external devices.

File Manager
With File Manager, easily access and save files from internal storage, USB memory devices, or OneDrive cloud storage, while also viewing or playing back images, music and videos.

*EShare is a trademark of EShare Technology Co., Ltd.
**OfficeSuite is a trademark of MobiSystems

Benefits

Designed for Clarity – the high-brightness panel ensures content remains readable even in well-lit environments, while the anti-glare, high-haze coating eliminates distracting reflections.

Pen-On-Paper User Experience – Zero bonded glass and the latest infrared touch technology enable highly accurate and responsive writing and drawing, supporting up to 20 touch points.

Out-of-the-Box Collaboration – the integrated Android PC features a powerful home screen launcher, offering fast and flexible access to a range of pre-installed applications.

Highly Customizable – a variety of settings allow the display to be optimized for various applications, from small meeting and huddle rooms to touch signage and wayfinding.

Safe & Secure – with the latest Android 14 SoC, the system offers robust security features that meet the highest IT security standards.
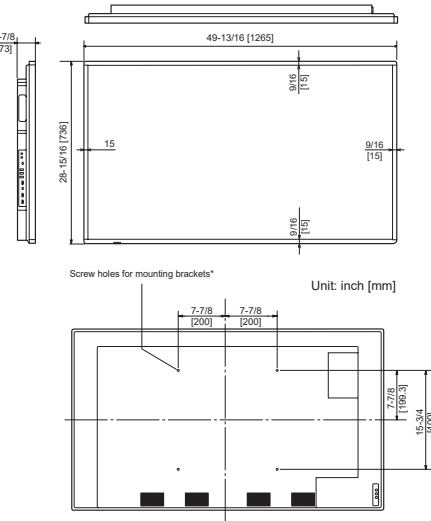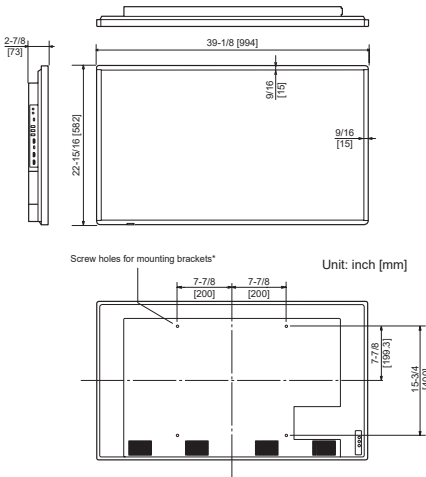
Specifications

Installation		Landscape/Portrait/Tilt (Backward 0-45°)	
LCD panel	LCD component	55" Class [54-5/8 inch (138.78 cm)diagonal] TFT LCD	43" Class [42-1/2 inch(107.99 cm) diagonal] TFT LCD
	Max. resolution (pixels)	3840 x 2160	
	Max. colors	Approx. 1.07 billion colors	
	Brightness (typical)	500 cd/m² *1	
	Pixel pitch	0.315 mm (H) × 0.315 mm (V)	0.245 mm (H) × 0.245 mm (V)
	Contrast ratio (typical)	5000 : 1	4000 : 1
	Screen active area inch	47-5/8 (W) x 26-13/16 (H) (1209.6 x 680.4mm)	37-1/16 (W) x 20-13/16 (H) (941.184 x529.416mm)
	Viewing angle	178° right/left/up/down (contrast ratio ≥ 10)	
	Response speed (standard value)	6.5ms (Gray to Gray, Ave.)	
	Plug and play	VESA DDC2B	
Input terminals	Video / Audio	HDMI x 3 / USB Type-C x 1	
	Serial (RS-232C)	D-sub 9 pin x 1	
	For control kit	3.5 mm mini stereo jack x 1	
Output terminals	Video / Audio	HDMI x 1 *6	
	Audio	3.5 mm mini stereo jack x 1	
USB port		USB 3.0 Type-A x 3 / USB 3.0 Type-C x 1 / USB 2.0 Type-A x 1	
LAN terminal		10 BASE-T/100 BASE-TX/1000 BASE-T	
System	OS	Android 14	
	CPU	Arm Cortex-A73 processor x 4, A53 processor x 4(Octo-Core) v	
	Memory	4GB	
	Storage	32GB	
Wireless LAN		IEEE802.11a/b/g/n/ac/ax compliant Encryption mode: WPA/WPA2/WPA3 enterprise, WPS2.0, WAPI	
Bluetooth		5.3 compliant Supported protocols: A2DP, AVRCP, GATT, HID	
Expansion slot		18 V, 3.6 A (power supplied when expanding the functions with an optional part)	-
Speaker output		10 W + 10 W	
Touch Panel	Detection method	Infrared blocking detection method	
	Computer connector	USB 3.0 Type-B x 1 / USB Type-C x 1	
Power requirement		AC 100 V - 240 V, 3.2 A - 1.3 A, 50/60 Hz	AC 100 V - 240 V,2.6 A - 1.1 A, 50/60 Hz
Operating temperature *2 *3		41°F to 95°F (5°C to 35°C)	
Operating humidity *3		20% to 80% (no condensation)	
Storage temperature		-4°F to 140°F (-20°C to 60°C)	
Storage humidity		10% to 80% (no condensation)	
Power consumption*4 (Max / networked standby mode*5/ standby mode*5)		145W (285W/2.0W/0.5W)	110W (230W/2.0W/0.5W)
Dimensions inch (excluding protrusions)		Approx. 49-13/16 (W) x2-7/8 (D) x 28-15/16 (H) (1265 x 73 x 736mm)	Approx. 39-1/8 (W) x2-7/8 (D) x 22-15/16 (H) (994 x 73 x 582mm)
Weight		Approx. 72.8lbs. (33 kg)	Approx. 46.3lbs. (21kg)

*1 Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness. This is the brightness of the LCD panel. Brightness of product: 450 cd/m2 *2 Temperature condition may change when using the monitor together with the optional equipments recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipments." *3 In addition, check the requirements of the computer and other devices to be connected, and make sure that all requirements are satisfied. *4 Factory setting. (When no optional part is attached.) *5 When no optional part is attached. Standby time until transitioning to Network Standby: About 5 sec. (setting at the time of shipment from the factory). *6 If the input video is encrypted with copyright protection, the video cannot be output.
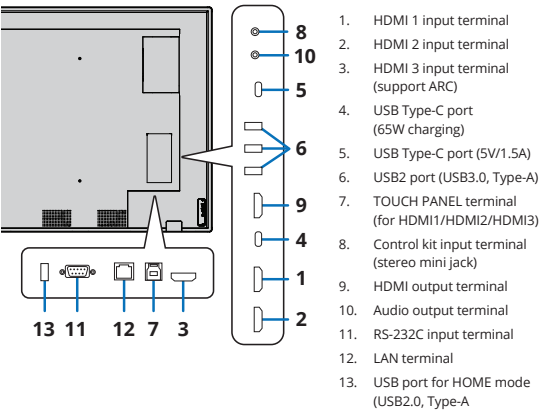
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Units: Inch (mm)

Connectivity

1. HDMI 1 input terminal
2. HDMI 2 input terminal
3. HDMI 3 input terminal (support ARC)
4. USB Type-C port (65W charging)
5. USB Type-C port (5V/1.5A)
6. USB2 port (USB3.0, Type-A)
7. TOUCH PANEL terminal (for HDMI1/HDMI2/HDMI3)
8. Control kit input terminal (stereo mini jack)
9. HDMI output terminal
10. Audio output terminal
11. RS-232C input terminal
12. LAN terminal
13. USB port for HOME mode (USB2.0, Type-A)

Optional PN-ZCMS1 AV Soundbar

PN-ZCMS1 AV Soundbar Specifications		
Camera	Pixels	12MP
	Field of view	120°
	Zoom	Max. 5x
	Resolution	Max. 3,840 x 2,160
	Adjustable Angle	Up 15°, Down 15° (manual)
Microphone	Voice Pickup Range	8 meters
	Mic Array	6 Elements
Speaker	Output Power	8 watts

For more information on Synappx application, visit https://business.sharpusa.com/Synappx