

# SHARP®

## PN-L401C PN-L501C

AQUOS BOARD®

Interactive Display Systems

### Dynamic Interactive Touch Screens



## AQUOS BOARD®

# Maximize the Value of Interactive Technology In Smaller Spaces

The Sharp AQUOS BOARD interactive display series is designed to enhance communication and productivity. Reinforcing the lineup are 40" (39.5" diagonal) and 50" (49.5" diagonal) Class models that deliver fast, collaborative benefits in both classrooms and meeting rooms with a choice of sizes to meet your needs. In the business world, the PN-L401C/501C interactive displays are ideal for increasingly popular “huddle space” meetings in smaller areas for two to six people. Making the most of huddle spaces can optimize communication and accelerate business to a whole new level.

## Intuitive Touch Signage

*With its 10-point multi-touch functionality and high-sensitivity capacitive touch technology, the PN-L401C/501C interactive displays shine in a variety of roles and locations. Whether installed face-up or in a landscape or portrait orientation, they excel as interactive information interfaces. Not only are they powerful meeting tools, they can also be used to engage and inform people in stores, museums, showrooms and other public spaces. The PN-L401C/501C interactive displays' versatile touch signage capabilities make them a true value-adder.*



When it comes to digital signage, the PN-L401C/501C interactive displays' versatile, feather-light touch capabilities add great value. For example, customers can easily browse through vivid store merchandise images and access information about products with a simple stroke of the finger. Although fingerprint soiling is common in digital signage, the glass screen is protected by a special anti-glare film that not only minimizes fingerprints, it also reduces glare and reflections in brightly-lit areas for optimal visualization.

## Get the Most out of Your Face-to-Face Interactions

*There are times in every day when you need to have some quick face time with a few of your colleagues or clients. It could be for a project update, a brainstorming session, or a business meeting. Every one of these impromptu gatherings can be transformed into a genuinely productive and creative session. All it takes is a little help from the PN-L401C/501C interactive displays.*



### Huddle Spaces

With the PN-L401C/501C interactive displays, everyone can engage meaningfully in small-group meetings by sharing onscreen information. Intuitive touchscreen operation, whether with a finger or pen, facilitates active collaboration and a lively exchange of opinions. And with the optional wireless board, you can also have BYOD meetings. Speedy, productive collaborations become a reality.



### Meeting Booths

Set up a PN-L401C/501C interactive display in your company's visitor meeting space to transform your interactions with clients and other visitors. Touchscreen functionality helps to bring greater focus and productivity to your interactions. And the PN-L401C/501C interactive displays never have to sit idly by. When not being used in a meeting, it can be used as appealing touchscreen signage displaying corporate ads, notices and other information.



### Learning Areas

In both business and educational settings, the PN-L401C/501C interactive displays enhance collaboration and group learning sessions. SHARP Pen Software works with the PN-L401C/501C interactive displays in both landscape and portrait orientations. This expands the product's range of usage to cover a variety of settings. For example, the PN-L401C/501C interactive displays can work as a sophisticated bulletin board or flip chart. You can import data to display, write on it freely by hand, and save your handwritten notes digitally for later reuse.

## Effective and Interactive Communications

### Full HD Touchscreen LCD

The PN-L401C/501C interactive displays employ a full-flat design with **10-point multi-touch** functionality. They provide a smooth, quick response for writing and touch gestures, while delivering full HD (1,920 × 1,080-pixel) resolution. You have a choice of 40" (39.5" diagonal) or 50" (49.5" diagonal) Class screen sizes to suit your application.

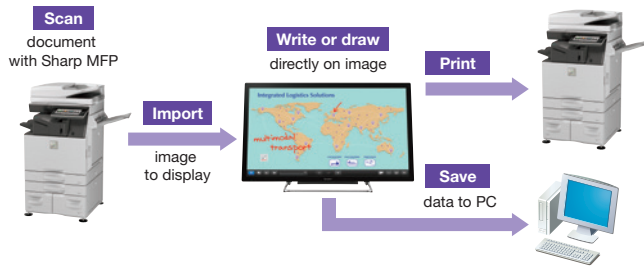
### Responsive and Intuitive Operation

Thanks to Sharp's original **capacitive touch technology**, the PN-L401C/501C interactive displays offer extremely precise and smooth operation. The bundled **2 mm-tip touch pen** facilitates communication by supporting smooth and accurate onscreen writing of fine text and lines. An onscreen **touch menu** lets you easily switch inputs, change between touch and pen modes and access other frequently used functions. The screen surface uses **anti-glare glass**, which minimizes fingerprints, and also reduces glare and reflections.



### MFP Connectivity

Scanned documents can be directly imported to SHARP Pen Software from a compatible Sharp MFP. Onscreen image data, including handwriting, can be sent to a PC for storage or to an MFP for printing.



### SHARP Touch Viewer™ Software

Original Sharp software lets you manipulate a variety of different files on the screen without actually opening the respective applications. The files\* are displayed onscreen as "sheets," which can be stored in onscreen virtual "drawers." This software brings convenience and originality to business meetings, in-store installations, and more.

\* Viewable files: Microsoft Office (Excel®, Word, PowerPoint), PDF, JPEG/PNG/BMP/TIFF, and WMV/AVI/MP4/FLV.

Note: Access the downloader on the bundled CD-ROM to install the software. In the case of a face-up installation, please consult with your local authorised Sharp dealer or representative.

## Plug into Convenience and Collaboration

As well as coming standard-equipped with a range of interface terminals such as HDMI™ and DisplayPort™ 1.2, the PN-L401C/501C interactive displays include an expansion slot compatible with the Intel® Mini Open Pluggable Specification (Mini OPS). This slot supports the addition of an optional wireless or HDBaseT™ receiver board. By making more effective use of the PN-L401C/501C interactive displays, you get greater convenience and an expanded range of functionality.

### Wireless Board (PN-ZB03W)

This optional PN-ZB03W allows up to 10 devices — including Mac® or Windows® computers, smartphones, and tablets—to connect to the PN-L401C/501C interactive displays simultaneously without any cable hassles. You can display the content of one device on the whole screen, or you can display the content from up to four devices in a 2 × 2 split screen. Enabling such wireless collaboration is a great way to enhance productivity in work or educational environments.



An optional board can slide into the slot on the back of the monitor.

### User-Friendly SHARP Pen Software

The easy-to-launch SHARP Pen Software user interface incorporates a menu comprising smartly arranged icons that provide easy access to pen settings and other useful functions. In overlay mode, you can write onscreen annotations or graphics directly onto photos, videos, PDFs and common Microsoft® files. Text and graphics written on the PN-L401C/501C interactive displays can be stored in USB memory\* or sent directly via email to selected recipients. The software links smoothly with the PowerPoint® application, enabling you to perform various control operations during slideshow presentations. Support for a portrait set-up—newly introduced with this model—gives you more flexibility for use in conference rooms and classrooms.

\* Saved as PDF, BMP, JPEG, PNG, or SWSX files.



Touch Pen

### SHARP Display Connect™

This software supports multifaceted wireless communication. Content on the PN-L401C/501C interactive displays' screens, including handwritten notes, can be shared simultaneously with up to 50 devices. Also, files can be exchanged between devices connected to the PN-L401C/501C interactive displays.

Note: Access the downloader on the bundled CD-ROM to install the software.

### Crestron Connected™

Compatibility with Crestron Connected software enables you to remotely control and manage each monitor via a LAN network.

### Other Key Features

- Mount for **web camera**
- **Bundled stand** for desktop/landscape set-up (PN-L401C)
- **16-hour** daily operation

### HDBaseT Receiver Board (PN-ZB03H)

The optional PN-ZB03H can receive HDMI video/audio and control signals sent via a single LAN cable\*1 from up to 100 meters away. It also allows you to remotely operate a PC from a USB device connected to the board\*2.

\*1 Category 6 or higher shielded cable (available commercially)

\*2 Requires an HDBaseT 2.0-compatible transmitter (available commercially). Not all USB devices are supported.

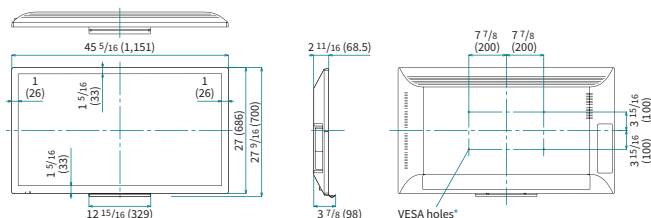
## Specifications

Model Name		PN-L401C	PN-L501C
Installation		Landscape / Portrait / Face-up	
LCD Panel		40" Class widescreen (39.5" diagonal) TFT LCD	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colors (approx.)	16.77 million colors	
	Pixel Pitch (H x V)	0.457 x 0.449 mm	
	Max. Brightness (average)*1	300 cd/m <sup>2</sup>	
	Contrast Ratio	5,000 : 1	
	Viewing Angle (H/V)	178°/178° (CR ≥ 10)	
	Active Screen Area (W x H) (approx.)	34 9/16" x 19 3/32"	
	Response Time	9.5 ms (grey to grey, avg.)	
Touchscreen	Backlight	LED, edge lit	
	Touch Technology	Capacitive touch	
	PC Connection Port	USB (2.0 compliant) (Type B) x 1	
	Power Supply	Supplied from main unit	
	Multi Touch	10 points	
Computer Input	Protection Glass	Thickness: approx. 2.5mm*2 Shock resistance: 130 cm*3	
	Video	Analog RGB (0.7 Vp-p) [75Ω], HDMI, DisplayPort	
	Synchronization	Horizontal/vertical separation (TTL: positive/negative)	
	Plug & Play	VESA DDC2B	
Input Terminals*4	Power Management	VESA DPMS	
	Output Terminals*4	PC analog: Mini D-sub 15-pin x 1, HDMI x 2 (HDCP and 1080p compatible), DisplayPort (HDCP compatible, PC signal compatible) x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1	
	Input/Output Terminals*4	LAN port (10Base-T/100Base-TX) x 1	
	USB Hub Function	USB 2.0 (Type A) x 2	
Speaker Output		10 W + 10 W	
Mounting		VESA (4 points), 200 x 200 mm, M6 screw	
Power Supply		100V – 240V AC, 50/60 Hz*5	
Power Consumption		89W	
Environmental Conditions	Operating Temperature*6	5°C to 35°C	
	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		36 15/16" x 2 9/16" x 21 1/2"	
Weight (approx.)		38.6 lbs	
Main Accessories		AC power cord, remote control unit, battery (AAA size) x 2, set-up manual, cable clamp x 3, camera mount, USB cable*6, logo sticker, pen tray, touch pen, CD-ROM, portrait installation operation label, desktop stand (PN-L401C only), SHARP Display Connect license x 1	

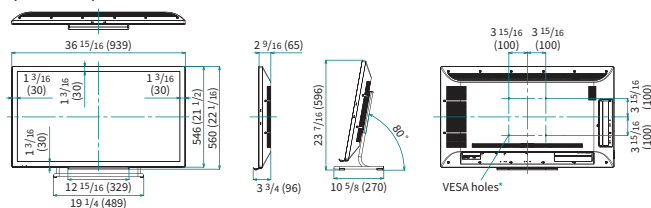
\*1 Brightness depends on input mode and other picture settings. Brightness level will decrease slightly over the lifetime of the product. Due to the physical limitations of the equipment, it is not possible to maintain a precisely constant level of brightness. Figures refer to the brightness of the LCD panel component. The brightness of the product itself may be less than this. \*2 Including film. \*3 Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. \*4 Use a commercially available connection cable for PC and other video connections. \*5 The AC power cord is an inlet type. The cable is bundled (3 pins). \*6 For face-up installation is 5°C to 30°C. \*7 To use the touch panel, connect the bundled USB cable to the computer. If connected via a USB hub, the PC may not recognise the PN-L501C/401C correctly and operation may be unstable.

## Dimensions

### (PN-L501C)



### (PN-L401C)



Units: inch (mm)

\* To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

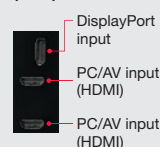
### System Requirements

PC	PC/AT compatible machine with USB 2.0 port and screen resolution of 1,920 x 1,080 (CD-ROM drive required for installation)
CPU	Intel® Celeron® 1.6GHz, or AMD Sempron™ 1.6GHz or higher (Intel® Core™ 2 Duo 2.8GHz, or AMD Athlon™ II x 2 2.8 GHz or higher recommended)
OS	Windows® 7 (32-bit/64-bit), Windows® 8.1 (32-bit/64-bit), Windows® 10 (32-bit/64-bit)
Memory	2GB or more
Hard disk	200MB or more free space (additional space required for data storage)

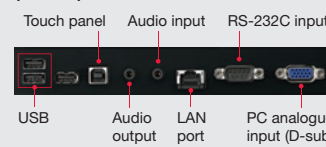
## Input/Output Terminals

### [standard]

#### (Side)



#### (Bottom)

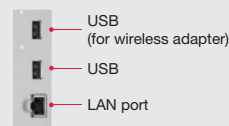


### [option]

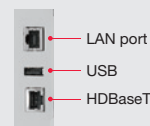
#### PN-ZB03AO



#### PN-ZB03W



#### PN-ZB03H



### PN-ZB03W Wireless Board

Maximum resolution	1,920 x 1,080 (30 Hz)
Wireless communication method	2.4 GHz, IEEE802.11b/g/n 5 GHz, IEEE802.11a/n
Input/output terminals	LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB 2.0), Wireless adapter x 1 (USB 2.0)
Power supply	From the monitor

### PN-ZB03H HDBaseT Receiver Board

Supported standard	HDBaseT 2.0
Maximum resolution	4,096 x 2,160 (30 Hz)
Copy protection	HDCP pass-through
Transmission distance	Up to 328 feet / 100 m
Input/output terminals	HDBaseT x 1, LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB 2.0)
Power supply	From the monitor

### PN-ZB03AO Computing Board

CPU	Intel Celeron N3160
Memory	4GB DDR3-L
Storage	64GB SSD
OS	Windows® 10 IoT Enterprise



SHARP ELECTRONICS CORPORATION  
100 Paragon Drive, Montvale, NJ 07645  
1-800-BE-SHARP • www.sharpusa.com

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