Interactive Display - Infrared Touch

Sharp LB653-WIFI



Flexible collaboration for workplaces and learning environments

- Flexible and customisable user experience Multiple user interface options including Google EDLA Home, Sharp Launcher and Android Hide allow organisations to tailor the display for collaboration, education or touch signage use cases.
- Natural Pen-on-Paper® writing Highly responsive infrared touch technology with dual-tip passive pens and Windows Ink support delivers an intuitive and accurate writing experience for brainstorming and collaboration.
- Versatile installation and connectivity Clean narrow-bezel design supporting portrait and tilted installations (65”/75”), OPS slot expansion, HDMI-out with MST support via USB-C for multi-screen setups and a Wi-Fi dongle for flexible wireless network connectivity.
- Secure and future-ready platform Android 14 SoC with Google EDLA certification, regular OTA updates and advanced security features such as IEEE 802.1X ensure a reliable, secure and easily manageable collaboration environment.
- Seamless collaboration workflows USB-C connectivity enables simple BYOM meetings with video, data, touch and up to 100W charging through a single cable, while EShare allows wireless screen sharing from personal devices.

Options

IoT and Asset Management

NaViSet Administrator 2 Sharp/NEC's software suite that provides monitoring, asset management and control functionality for display devices
Sharp/NEC's software suite that provides monitoring, asset management and control functionality for display devices.

Sharp Information Display Downloader The key software to use when installing and configuring Sharp displays
The key software to use when installing and configuring Sharp displays

Mounting Options

Trolley PD02MHA High-end motorised and height-adjustable mobile stand for dedicated Sharp/NEC large format displays (48" to 98")
High-end motorised and height-adjustable mobile stand for dedicated Sharp/NEC large format displays (48" to 98").

Wall Mount SF680P Universal XX-Large flat wall mount for dedicated Sharp/NEC large format displays (65" to 98")
Universal XX-Large flat wall mount for dedicated Sharp/NEC large format displays (65" to 98")

Wall Mount L20PNWALL90EU Universal X-Large flat wall mount for dedicated Sharp/NEC interactive large format displays (50" to 90")
Universal X-Large flat wall mount for dedicated Sharp/NEC interactive large format displays (50" to 90").

Trolley EVER 350 Mobile High-end mobile trolley for dedicated Sharp/NEC large format displays (50" to 98")
High-end mobile trolley for dedicated Sharp/NEC large format displays (50" to 98").

Trolley EVER 350 Mobile Motor High-end mobile trolley offering motorised height-adjustability for dedicated Sharp/NEC large format and interactive displays (50" to 98")
High-end mobile trolley offering motorised height-adjustability for dedicated Sharp/NEC large format and interactive displays (50" to 98").

Interactive Options

Sharp Universal Pen SUP02-M Universal passive pen for Sharp interactive large format displays
Universal passive pen for Sharp interactive large format displays.

Computing Advanced

OPS Slot-in PC Advanced (RPH) OPS slot-in PC (Intel® Core i5) for all high-end signage applications
OPS slot-in PC (Intel® Core i5) for all high-end signage applications.

Value Added Services

De-/Re-install Service for Large Format Displays Optional De-/Re-install Service (1st to 3rd year or 1st to 5th year) for dedicated Sharp Large Format Displays
Optional De-/Re-install Service (1st to 3rd year or 1st to 5th year) for dedicated Sharp Large Format Displays

Laser Branding Optional Laser Branding Service for dedicated Sharp Display Products
Optional Laser Branding Service for dedicated Sharp Display Products

Support+ Optional additional services (1st to 3rd year) for dedicated Sharp Display Products
Optional additional services (1st to 3rd year) for dedicated Sharp Display Products

Speakers and Soundbars

PN-ZCMS1 All-in-one collaboration videobar incl
All-in-one collaboration videobar incl. speaker, microphone and camera.

Cables

USB-C 5M 5m USB Type-C cable
5m USB Type-C cable

USB-C 7M 7m USB Type-C cable
7m USB Type-C cable

Sensors

Sharp KTES1 ECO Sensor for dedicated Sharp large format displays
ECO Sensor for dedicated Sharp large format displays.

Computing Enterprise

OPS Slot-in PC Enterprise Ultra (RPH) OPS slot-in PC (Intel® Core i7) for demanding meeting room applications
OPS slot-in PC (Intel® Core i7) for demanding meeting room applications.

OPS Slot-in PC Enterprise Pro (RPH) OPS slot-in PC (Intel® Core i5) for demanding meeting room applications
OPS slot-in PC (Intel® Core i5) for demanding meeting room applications.

Computing Midrange

OPS Slot-in PC Midrange (ADL) OPS slot-in PC (Intel® Core i3) for all high-end signage applications
OPS slot-in PC (Intel® Core i3) for all high-end signage applications.

Warranty Extensions

2nd Life Warranty Extension for Large Format Displays (Eco Prime) Optional Second-life warranty (3 years) for dedicated Sharp Large Format and Interactive Displays
Optional Second-life warranty (3 years) for dedicated Sharp Large Format and Interactive Displays

2nd Life Warranty Extension for Large Format Displays (Eco Value+) Optional Second-life warranty (1 year) for dedicated Sharp Large Format and Interactive Displays
Optional Second-life warranty (1 year) for dedicated Sharp Large Format and Interactive Displays

2nd Life Warranty Extension for Large Format Displays (Eco Select) Optional Second-life warranty (2 years) for dedicated Sharp Large Format and Interactive Displays
Optional Second-life warranty (2 years) for dedicated Sharp Large Format and Interactive Displays

Warranty Extension for Large Format Displays and Computing Solutions Optional Warranty Extension (4th to 5th year) for dedicated Sharp Large Format Displays and Computing Solutions
Optional Warranty Extension (4th to 5th year) for dedicated Sharp Large Format Displays and Computing Solutions

Specifications

General

Series	[sharp-pn-l2b-series]
Order Code	PNLB653-WIFIB

Display

Aspect Ratio	16:9
Brightness Without Glass (cd/m²)	500
Colour Depth	1.07 (8bit + FRC)
Contrast Ratio	1500:1
Haze Level (%)	Pro (25)
Panel Refresh Rate (Hz)	60
Panel Technology	IPS with Direct LED backlights
Response Time Grey-to-grey (ms)	8
Screen Size (inch)	65
Screen Size (cm)	163.9
Supported Orientation	Portrait, Landscape
Viewing Angle	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)

Touch

Touch Accuracy +/- (mm)	1
Data Interface	USB 2.0 (full speed) HID; USB powered, plug & play
Number of Touches	Real multi-touch up to 40 touches
Writing Features	[palm-rejection], [windows-ink]
Touch Supported OS	Android, Linux, Mac OS (single touch), Raspberry Pi, Windows
Touch Method	Gloves, Finger, Stylus
Stylus	Stylus dual pen tip (2.6mm/6.8mm)
Touch Technology	Infrared

Protective Glass

Glass Bonding Gap < (mm)	1
Glass Thickness (mm)	3.2
Glass Hardness	9
Glass Type	Thermal-tempered, anti-glare coating

Resolution

Native Resolution	3840 x 2160
Supported Resolutions	4096 x 2160, 1680 x 1050, 1280 x 720, 3840 x 2160, 1024 x 768 , 1280 x 1024, 640 x 480, 1440 x 900, 720 x 400, 1280 x 960, 1920 x 1080, 800 x 600

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable
Human Sensor	optional via Eco Sensor (KTES1)

Electrical

Power Consumption typ. (W)	140
Power Supply	100-240 V AC, 50/60 Hz
Power Savings Mode (W)	< 2.0 (Networked Standby), < 0.5 (ECO Standby)

Environmental Conditions

Operating Humidity (%)	20 to 80
Operating Temperature (°C)	+5 to +35
Storage Humidity (%)	10 to 80
Storage Temperature (°C)	-20 to 60

Connectivity

Audio Output 3.5mm	Audio Output, Line Out
HDMI In 1	CEC, Audio Input, Video Input, UHD (60 Hz) HDCP (2.3)
HDMI In 2	Video Input, UHD (60 Hz) HDCP (2.3), CEC, Audio Input
HDMI In 3	Audio Input, Video Input, CEC, UHD (60 Hz) HDCP (2.3), ARC
HDMI Out	UHD (60 Hz), Internal SoC content: FHD (60 Hz) HDCP (2.2), Audio Output, Loop Through: HDMI IN 1/2/3, USB-C (MST), OPS, Android SoC, Video Output
Input Detect	Last, Custom, First
LAN 1	100 MBit/s
LAN 2	100 MBit/s
LAN 2 Loop Through	LAN 1, RS-232C, IR
PiP / PbP	2-Split
Remote In (3.5mm)	Eco Sensor (IR-Extender, Ambient and Presence)
RS-232C (bps)	9600
USB-A Service	USB 2.0, Wireless Adapter, Service
USB-A 1	Auto Switch (Android SoC, OPS, PC), Peripherals, USB (3.0), USB Storage, [usb-20]
USB-A 2	USB Storage, Peripherals, Auto Switch (Android SoC, OPS, PC), USB (3.0), [usb-20]
USB-A 3	USB Storage, Peripherals, Auto Switch (Android SoC, OPS, PC), [usb-20]
USB-B 1	USB (3.0), Touch Signal
USB-C 1	Video Input, Touch Signal, UHD (60 Hz), HDCP (2.3), DP alt. 1.4, Audio Input, USB 2.0 / 3.0, 100 W
USB-C 2	USB 3.0, Peripherals, Auto Switch (Android SoC, OPS, PC), 7.5 W

Mechanical

Bezel Width (mm)	16
Dimensions Width (mm)	1487
Dimensions Height (mm)	862
Dimensions Depth (mm)	87
Packaging Dimensions Width (mm)	1670
Packaging Dimensions Height (mm)	980
Packaging Dimensions Depth (mm)	185
Packaging Weight (kg)	48
VESA Mounting Screw	M8
VESA Mounting FDMI	600 x 400
Weight (kg)	35

Embedded Computing

Android Features	Portrait support (apps and OSD), Hide Android SoC, App side loading, Enterprise Device Licensing Agreement (Google EDLA certified) , Application lock, Room Reset, Hide compass and side bar
Built-in Applications	Wireless Screen Sharing – Miracast, Airplay & Google cast, EShare , Whiteboard, File Manager, Google Play Store, Web Browser, Multiple Google Apps, PDF Viewer
Built-in Tools	Compass for shortcut button, Voting Kit, Annotation overlay mode
CPU	Arm Cortex A53x4 2.0 GHz (octo-core), Arm Cortex A73x4 2.3 GHz
Internal Storage	64GB ROM
System Memory	8G RAM
System Version	Android 14

Bluetooth

Bluetooth	5.3 compliant: A2DP; AVRCP; GATT; HID

Wireless LAN

WLAN	IEEE802.11 a/b/g/n/ac/ax compliant, WPA/WPA2/WPA3 Enterprise, Access Point

Available Software

Free Software Included	Sharp Pen Software - free download

Regulatory

Pixel Failure Class	ISO 9241-307, Class 1
Safety and Ergonomics	UKCA, RoHS, CE, EMC Class B

Green Features

Ecological Standards	EnergyStar 8.0
Energy Efficiency	Ambient light sensor, Carbon savings meter

3rd Party Certifications

3rd Party Certificate	[enterprise-device-licensing-agreement-google-edla-certified], Q-Sys Plug-in

Additional Features

Audio	Integrated Speakers (2 x 15 W)
External Control	SNMP
Operating Hours	18/7
Remote Management	NaViSet Administrator 2
Security	Disable HW Buttons, IEEE802.1X (LAN & Wi-Fi), Disable USB Ports, Disable IR Functionality
Shipping Content	Blank Sticker, Display, 2 x AAA batteries, Bracket for Camera, Remote Control , 2 x Passive Stylus, Cable Clamps, Power Cable, Setup Manual, Wireless Adapter, 1 x 300 cm USB Cable
Special Characteristics	Scheduler, Clone Settings
Warranty	optional 4. + 5. year warranty extension, 3 years warranty incl. backlight

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