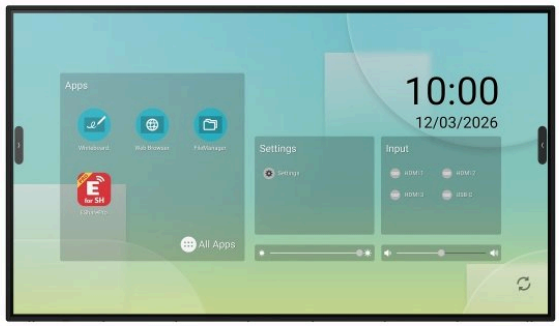
LCD 86" Infrared Touch Display

Sharp LB863





Flexible collaboration for workplaces and learning environments

Designed for professional collaboration and engaging interactive experiences, the Sharp LB3 Series combines powerful Android performance with flexible connectivity and highly responsive touch interaction. Featuring an Android 14 System on Chip with Google EDLA certification, the display provides secure access to the Google Play Store and seamless integration with Google Workspace apps for efficient teamwork in meeting rooms and classrooms.

The Sharp LB3 Series enhances collaboration with a natural Pen-on-Paper® writing experience, built-in whiteboard and wireless screen sharing via EShare. A single USB-C connection supports BYOM workflows and up to 100W power delivery, enabling simple and clutter-free meeting setups.

With its high brightness panel, anti-glare coating and zero-bonded glass, content remains clear and readable even in bright environments. Multiple user interface options, extensive customisation features and a clean narrow-bezel design make the LB3 Series a versatile solution for corporate meeting spaces, higher education and interactive signage applications.

Benefits

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, and HDMI-out with MST support via USB-C for interactive multi-screen setups.

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.

Specifications

Product Information

Product Name
Sharp LB863

Model
PN-LB863

Product Group
LCD 86" Infrared Touch Display

Order Code
PNLB863

Display

Panel Technology
IPS with Direct LED backlights

Screen Size [inch/cm]
86 / 217.4

Aspect Ratio
16:9

Brightness (without glass) [cd/m²]
500

Contrast Ratio (typ.)
1500:1

Viewing Angle [°]
178 horizontal / 178 vertical (typ. at contrast ratio 10:1)

Colour Depth [bn]
1.07 (8bit + FRC)

Response Time (typ.) [ms]
8 (grey-to-grey)

Panel Refresh Rate [Hz]
60

Haze Level [%]
Pro (25)

Supported Orientation
Landscape

Touch

Touch Technology
Infrared

Number of Touches
Real multi-touch up to 40 touches

Touch Method
Finger; Gloves; Stylus; Stylus dual pen tip (2.6mm/6.8mm)

Supported Operating System
Android; Linux; Mac OS (single touch); Raspberry Pi; Windows

Data Interface
USB 2.0 (full speed) HID; USB powered, plug & play

Accuracy [mm]
+/- 1

Windows Ink
Yes

Palm Rejection
Yes

Protective Glass

Type
Thermal-tempered, anti-glare coating; Zero Bonding

Bonding Gap [mm]
< 1

Thickness [mm]
3.2

Hardness [H]
9

Resolution

Native Resolution
3840 x 2160

Supported Resolutions

1024 x 768;	1440 x 900;	4096 x 2160;
1280 x 1024;	1680 x 1050;	640 x 480;
1280 x 720;	1920 x 1080;	720 x 400;
1280 x 960;	3840 x 2160;	800 x 600

Synchronisation Rate

Horizontal Frequency [kHz]
31.5 - 135

Vertical Frequency [Hz]
24 - 70

Connectivity

HDMI IN 1
Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI IN 2
Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI IN 3
ARC; Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI OUT
Internal SoC content: FHD (60 Hz) HDCP (2.2); UHD (60 Hz); Video Output; Audio Output; Loop Through: HDMI IN 1/2/3, USB-C (MST), OPS, Android SoC

USB-A 1
USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A 2
USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A 3
USB (2.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A (Service)
Wireless Adapter; USB 2.0; Service

USB-C 1
Touch Signal; Video Input; UHD (60 Hz); DP alt. 1.4; HDCP (2.3); Audio Input; USB 2.0 / 3.0; 100 W

USB-C 2
USB 3.0; 7.5 W; Peripherals; Auto Switch (Android SoC, OPS, PC)

USB-B 1
Touch Signal; USB (3.0)

Audio Output (3.5 mm)
Audio Output; Line Out

LAN 1
100 MBit/s

LAN 2
Loop Through: LAN 1, RS-232C, IR; 100 MBit/s

RS-232C
9600 bps

Remote In (3.5 mm)
Eco Sensor (IR-Extender, Ambient and Presence)

Input Detect
Custom; Last; First

PiP / PbP
(TBD)-Split

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 [W]
245 (typ.)

Power Savings Mode [W]
< 0.5 (ECO Standby); < 2 (Networked Standby)

Power Management
VESA DPMS

Power Supply
100-240 V AC; 50/60 Hz

Environmental Conditions

Operating Temperature [°C]
+5 to +35

Operating Humidity [%]
20 to 80

Storage Humidity [%]
10 to 80

Storage Temperature [°C]
-20 to 60

Mechanical

Dimensions (W x H x D) [mm]
1,954 x 1,125 x 87

Weight [kg]
60

Bezel Width [mm]
16 (symmetrical)

VESA Mounting [mm]
800 x 600 (FDMI); M8

Packaging Dimensions (W x H x D) [mm]
2,135 x 1,245 x 185

Packaging Weight [kg]
73

Material
Aluminum alloy (front side); metal (back side)

Embedded Computing

System Version
Android 14

CPU
Arm Cortex A53x4 2 GHz (octo-core); Arm Cortex A73x4 2.3 GHz

System Memory
8G RAM

Internal Storage
64GB ROM

Android Features
App side loading; Application lock; Enterprise Device Licensing Agreement (Google EDLA certified); Hide Android SoC; Hide compass and side bar; Room Reset

Built-in Applications
File Manager; Google Play Store; Input Select; Multiple Google Apps; PDF Viewer; Setting; Web Browser; Whiteboard; Wireless Screen Sharing - E-Share

Built-in Tools
Annotation overlay mode; Compass for shortcut button; Voting Kit

Bluetooth

Bluetooth
Optional Wi-Fi Dongle

Wireless LAN

WLAN
Optional Wi-Fi Dongle

Available Options

Accessories
Eco Sensor (KTES1); Soundbar (PN-ZCMS1); Trolley (EVER 350 Mobile Motor); USB-C cable (USB-C 5M; USB-C 7M); Wall mount (SF680P); WiFi Dongle WiFi Dongle LB3

OPS Slot
Recommended: OPS Enterprise Pro, OPS Enterprise Ultra

Regulatory

Safety and Ergonomics
CE; EMC Class B; RoHS; UKCA

Pixel Failure Class
ISO 9241-307, Class 1

Green Features

Energy Efficiency
Ambient Light Sensor; Carbon Savings Meter; ECOMode; LED Backlight

Ecological Standards
EnergyStar 8.0

3rd Party Certifications

Google
Enterprise Device Licensing Agreement (Google EDLA certified)

Q-Sys
Q-Sys Plug-in

Additional Features

Special Characteristics
CEC Support; Clone Settings; HDMI ARC; NaViSet Administrator 2 - free download; OSD rotation for portrait mode; Powered USB Port (100 W); Scheduler

Audio
Integrated Speakers (2 x 15 W)

Shipping Content
1x 300 cm USB Cable; 2 x Passive Stylus; 2x AAA batteries; Blank Sticker; Bracket for Camera; Cable Clamps; Display; Power Cable; Remote Control; Setup Manual

Warranty
3 years warranty incl. backlight; optional 4. + 5. year warranty extension [1]

Operating Hours
18/7

External Control
HDMI CEC; Scheduled Timer

Remote Management
NaViSet Administrator 2

Security
Disable HW Buttons; Disable IR Functionality; Disable USB Ports; IEEE802.1X (Wi-Fi; LAN)

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

CE

RoHS

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