

## Product Information Sheet

## NEC InfinityBoard



## NEC InfinityBoard: The all-in-one solution for your meeting room

Meeting rooms are evolving into multi-usage spaces. NEC's InfinityBoard is designed to fit your meeting scenario, whilst perfectly fulfilling your needs for a powerful and scalable workspace.

Presenting, brainstorming, reviewing, video conferencing or collaborating whatever the objectives of your meeting, the NEC InfinityBoard presents a perfect fit modular solution to achieve your desired meeting environment. Designed on the Ultra-High Definition (UHD) NEC MultiSync® 65" and 84" InGlass™ touch displays, it comes with stylus pens and wireless presenting functionality. The powerful Slot-In PC is based on the industry leading Open Pluggable Standard (OPS) interface - granting you flexibility for future upgrades.

NEC InfinityBoard, infinite possibilities to facilitate collaboration, drive productivity and keep employees attentive and motivated.

## Delivering Genuine Benefits

**Custom fit to your application needs** - modular approach with Windows 10 operating system makes this a highly flexible solution supporting your company specific apps to succeed in your business.

**Natural writing experience** - it's like working on paper! Whether using finger, pen or palm erasing, the InGlass™ touch technology provides seamless interactive touch performance.

**Best in class visual performance** - benefit from a "pixel-free" Ultra-High Definition (UHD) visual performance - available in 65" and 84" sizes.

**Facilitate productive communication** - enjoy a dynamic video conferencing experience with the dedicated conferencing camera and superior audio speakers.

**The tool-box to perform and achieve desired results** - Mosaic Hub is the interactive presenting application, whiteboard, video conferencing and collaboration app, allowing you to maximise the objectives of your meeting.

**Future-proof PC option & reduced footprint** - the integrated Slot-In PC using the integrated OPS option slot future-proofs your investment whilst reducing the product footprint and installation efforts.

## NEC InfinityBoard Components

### 65" & 84" UHD Touch Display



- UHD “pixel-free” viewing in 65” or 84” size and accurate colour visualisation controlled by NEC’s SpectraView® colour engine.
- Intuitive pen writing, palm erasing and finger touch, provided by InGlass™ touch technology.
- Natural pen response with no lag and glass surface with paper-like writing experience.

Complete technical specification can be found from page 4 of the information sheet.

### Conference Speakers



#### Conference Speakers Specifications

Maximum Input	40W
Rated Speaker Impedance	8 Ohm
Frequency Response Range	70Hz to 15kHz
Sound Pressure Level	82.1dB (2.83V)

- Excellent speech intelligibility for video conferencing with ultra-low distortion speakers.
- Sophisticated engineering with crisp audio; the solid MDF cabinet effectively minimises potential resonances and interactions with the loudspeaker.
- Perfect fit design and smooth Huddly camera integration option on both speakers to best fit to any room setup and light conditions.

### Video Conference Camera



#### Video Conference Camera Specifications

Viewing Angle	152° diagonal, 120° horizontal, 92° vertical
Resolution	16 megapixels sensor / HD 720p 30fps output
Aspect Ratio	16:9
Optical Capabilities	Digital Pan / Tilt / Zoom with 3x lossless digital zoom
Driver	Plug & Play - driverless install
Connectivity	SuperSpeed USB 3.0
Software Specification	Spatio-temporal noise filtering / High-quality video scaling and de-warping flicker elimination / Robust automatic white balance / Optical aberration correction / 3DNR sensor-model based visual noise reduction

- Encompass the entire meeting room with 120° viewing angle.
- Perfect viewing at any distance, whether standing in front of the board or sitting at the back.
- Auto-adapts to any lighting condition.

## NEC InfinityBoard Components

### OPS Slot-In PC



- Maximum flexibility with pre-installed Microsoft Windows 10 IoT Enterprise to install applications according to your needs.
- Modular OPS Slot-In PC approach allows future performance upgrades.

#### OPS Slot-In PC Specifications

CPU	Intel® 6th Generation Core i7 vPro-6820EQ 8M Cache 4x 2.8GHz
Graphics	Intel® HD Graphics 530
SSD	SATA SSD (mSATA) 6Gb/s (MLC); 128GB
RAM	2x 260 pin DDR4 SO-DIMM dual channel (2133 / 1866MHz, 8GB)
Operating System	Microsoft Windows 10 IoT Enterprise
Connectivity	1x mini DP out (max. 4096x2304 @ 60Hz) 1x LAN (RJ45, Intel® i211AT Giga LAN) 2x USB 3.0 (1.50A) 1x Microphone in 1x Headphone out 1x SD Card Slot

- OPS slot allows easy display integration eliminating separate power demands or video / audio cabling.

### MultiPresenter Stick



- Wireless Presentation solution for NEC Projectors and Displays, supporting multiple simultaneous connections on Win / MAC / iOS / Android.
- Allows to connect and show up to 16 mobile devices.
- Multi-OS to support BYOD initiatives.
- Screen mirroring on Android / Mac / Win.
- Easy connection by PIN code.
- Image and file sharing.
- Direct connection as well as infrastructure integration.

### Passive Precision Pen



- Passive pen with handy ergonomics, like a pencil.
- 2mm smart tip designed for a smooth, natural writing experience.
- Save replacement costs compared to active pens.

## Mosaic Software Suite

### Mosaic Hub

- Mosaic Hub is a Screen to Screen & Room collaboration that brings together teams in different locations to create and share content.
- It is designed to advance the way people work together with and on an NEC InfinityBoard.
- Integrates with market-leading communication solutions like Skype for Business, Box, Drive plus comes with native video chat for one-to-one communication.
- Users can join the session via their own device both in-room and remote using Mosaic Connect (coming soon).
- One year free subscription included with the NEC InfinityBoard.

### Mosaic Canvas

- With Canvas, multiple users can annotate on the display at the same time.
- Keep control of your ideas, zooming in & out on the large and flexible whiteboard canvas and benefit from the magnifier to keep focused on your detailed working area.
- Bring colour to your ideas by importing media, screen-grabs, adding post-its and text.
- Customise your tool palette and drag and drop the tools you use the most for quick and easy access.

## Technical Specifications

Product Name	<b>65" NEC InfinityBoard</b>	<b>84" NEC InfinityBoard</b>
Order Code	X651UHD-INF-B	X841UHD-INF-B
Scope of Supply	X651UHD-2 IGB Display, OPS Slot-In PC incl. Windows 10 IoT, Huddly Camera, SP-651SM Speaker, 2x passive Pen, NEC MultiPresenter Stick	X841UHD-2 IGB Display, OPS Slot-In PC incl. Windows 10 IoT, Huddly Camera, SP-841SM Speaker, 2x passive Pen, NEC MultiPresenter Stick
<b>Display</b>		
Panel Technology	S-IPS with Edge LED backlights	S-IPS with Edge LED backlights
Active Screen Area (W x H)	1,428 x 804mm	1,860 x 1,046mm
Screen Size	65" / 165cm	84" / 213.5cm
Brightness	450; 270cd/m <sup>2</sup> - Eco (shipment setting)	500; 300cd/m <sup>2</sup> - Eco (shipment setting)
Contrast Ratio (typ.)	1300:1	1400:1
Viewing Angle	178° horizontal / 178° vertical (typ. at contrast ratio 10:1)	178° horizontal / 178° vertical (typ. at contrast ratio 10:1)
Response Time (typ.)	8ms (grey-to-grey)	12ms (grey-to-grey)
Haze Level	10%	10%
Supported Orientation	Face Up; Landscape; Portrait	Face Up; Landscape; Portrait
<b>Synchronisation Rate</b>		
Horizontal Frequency	31.5 - 91.1kHz (analog and digital)	31.5 - 91.1kHz (analog and digital)
Vertical Frequency	50 - 85Hz	50 - 85Hz
<b>Resolution</b>		
Native Resolution	3840x2160 at 60Hz	3840x2160 at 60Hz
Supported on DisplayPort and HDMI	3840x2160 (24 / 30Hz); 1920x1080; 1600x1200; 1360x768; 1280x1024; 1280x768; 1080i; 1080p; 1024x768; 800x600; 720p (50 / 60Hz); 640x480; 480p (60Hz)	
<b>Connectivity</b>		
Input Video Digital	1x DisplayPort (with HDCP); 2x DVI-D (with HDCP); 4x HDMI (with HDCP)	1x DisplayPort (with HDCP); 2x DVI-D (with HDCP); 4x HDMI (with HDCP)
Input Audio Analogue	1x 3.5mm jack	1x 3.5mm jack
Input Audio Digital	1x HDMI; DisplayPort	1x HDMI; DisplayPort
Input Control	LAN 100Mbit; remote control wire (3.5mm jack); RS-232	LAN 100Mbit; remote control wire (3.5mm jack); RS-232
Output Control	LAN 100Mbit	LAN 100Mbit

## Technical Specifications

Product Name	<b>65" NEC InfinityBoard</b>	<b>84" NEC InfinityBoard</b>
Remote Control	LAN with SNMP; Remote Control IR (internal / external (optional) sensor); RS-232C (9-pin D-sub) Input	LAN with SNMP; Remote Control IR (internal / external (optional) sensor); RS-232C (9-pin D-sub) Input
<b>Open Modular Intelligence</b>		
Slot Technology	Open pluggable specification (NEC / Intel OPS standard)	Open pluggable specification (NEC / Intel OPS standard)
Inrush Current	max. 10A	max. 10A
Power Consumption	max. 61W	max. 61W
Voltage / Current	16V / 4A	16V / 4A
<b>Electrical</b>		
Power Consumption	164W Eco (shipment setting); 212W	342W Eco (shipment setting); 512W
Power Savings Mode	< 0.5W (ECO Standby); < 2.5W	< 0.5W (ECO Standby); < 2.5W
Power Management	VESA DPMS	VESA DPMS
<b>Environmental Conditions</b>		
Operating Temperature	+0 to +35 °C	+0 to +35 °C
Operating Humidity	20 to 80%	20 to 80%
<b>Mechanical</b>		
Bezel Width	19.7mm (top and bottom); 19.9mm (left and right)	22mm
VESA Mounting	4 holes; 400 x 400mm (FDMI); M8	4 holes; 400 x 400mm (FDMI); M8
Dimension (W x H x D)	1,724 x 881 x 91mm	2,179 x 1,151 x 90mm
Weight	75kg	97kg
<b>Glass</b>		
Thickness	3mm	3mm
Type	Premium toughened protective glass, anti-glare coating	Premium toughened protective glass, anti-glare coating
Light Transmission	≥ 88%	≥ 88%
<b>Touch</b>		
Touch Technology	InGlass™ Touch	InGlass™ Touch
Number of Touches	Real Multi-Touch with up to 20 touch points	Real Multi-Touch with up to 20 touch points
Response Time	≤ 15ms	≤ 15ms

## Technical Specifications

Product Name	<b>65" NEC InfinityBoard</b>	<b>84" NEC InfinityBoard</b>
Touch Active Area (W x H)	1,428 x 804mm	1,862 x 1,049mm
Touch Method	Finger; Gloves; Stylus (≥ 2mm)	Finger; Gloves; Stylus (≥ 2mm)
Operating System	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista
Data Interface	USB-HID	USB-HID
Accuracy	< 1mm	< 1mm
<b>Package</b>		
Dimension (W x H x D)	Box 1: 1,736 x 1,054 x 320mm (75kg) Box 2: 1,000 x 200 x 200mm (9kg) Box 3: 430 x 310 x 26.5mm (2kg)	Box 1: 1,736 x 1,054 x 320mm (100kg) Box 2: 1,200 x 200 x 200mm (11.2kg) Box 3: 430 x 310 x 26.5mm (2kg)
<b>Additional Features</b>		
Special Characteristics	Carbon footprint meter; DICOM support; NaViSet Administrator 2	Carbon footprint meter; DICOM support; NaViSet Administrator 2
Colour Versions	Black Front Bezel, Black Back Cabinet	Black Front Bezel, Black Back Cabinet
Safety and Ergonomics	CE; RoHS; RCM	CE; RoHS; RCM
Audio	Integrated Speakers (10W + 10W); External Speakers (40W + 40W)	Integrated Speakers (10W + 10W); External Speakers (40W + 40W)
Operating Hours	24 / 7	24 / 7
Warranty	3 years warranty incl. backlight; additional services available	



For more information, visit [au.nec.com](http://au.nec.com), email [contactus@nec.com.au](mailto:contactus@nec.com.au) or call 131 632

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v.22.01.17 | NEC InfinityBoard Product Information Sheet

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