Datasheet

\Orchestrating a brighter world

UniKomp.pl
Nowe Technologie IT
ul. Dworcowa 8
43-200 Pszczyna
sklep@unikomp.pl
www.wyswietlanie.pl
Telefony
(32) 210 22 11
(32) 326 33 00
(32) 212 88 22

NEC InfinityBoard

Create - Collaborate - Communicate

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 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.

InfinityBoard Components

65" & 84" UHD Touch Display



Technical specification are shown on page 4 of the datasheet

- 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

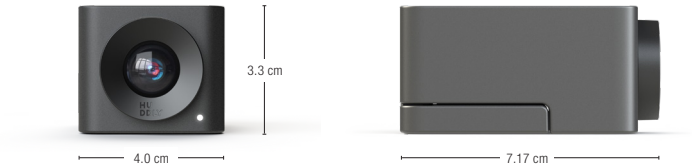
Conference Speakers



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

- 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



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 dewarping 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

OPS Slot-In PC



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); 128 GB
RAM	2x 260 pin DDR4 SO-DIMM dual channel (2133/1866 MHz, 8 GB)
Operating System	Microsoft Windows 10 IoT Enterprise
Connectivity	1x mini DP out (max. 4096 x 2304 @ 60Hz) 1x LAN (Rj45, Intel® i211AT Giga LAN) 2x USB 3.0 (1.50A) 1x Microphon in 1x Headphone out 1x SD Card Slot

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

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 is included with the 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, screengrabs, adding post-its and text
- Customise your tool palette and drag and drop the tools you use the most for quick and easy access

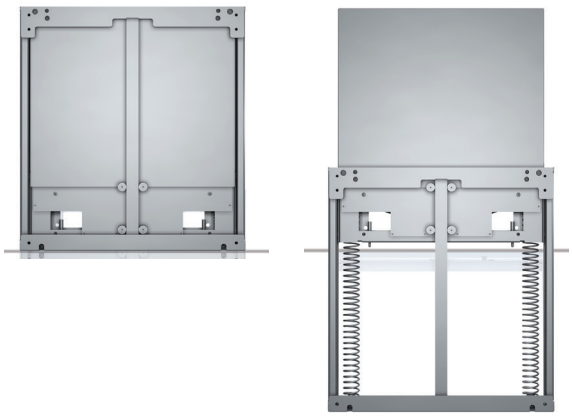
Passive Precision Pen



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

Optional Accessories

Height Adjustable Mounting Adapter



Size NEC InfinityBoard	65”	84”
Type	BalanceBox® 400	BalanceBox® 650
Height Adjustment	up to 400 mm	up to 650 mm
Order Code	100014706	100014705

- Perfect fit to your need: the display simply remain standing in any position according to your working style
- Easy touch movement: move up and down with only a light hand touch and no electricity needed
- Flexible installation: compact design allows direct mounting on the wall and the interface brackets serving all screen sizes
- Lowering your maintenance effort: easy initial seamless balance adjustment with just two screws guaranteeing a long term maintenance-free operation

Height Adjustable Mobile Trolleys



PD02MHM



PD03MHA

Size NEC InfinityBoard	65”	65” & 84”
Type	PD02MHM	PD03MHA
Height Adjustment	mechanical up to 400 mm (incl. BalanceBox® 400)	motorised up to 500 mm
Order Code	TBD	100014281

- Move your NEC InfinityBoard to wherever it is needed, make the most out of your resources by serving multiple meeting spaces
- Reduced cable clutter with integrated professional cable management
- Highly pre-assembled delivery to make installation quick and easy

Technical Specifications

PRODUCT INFORMATION		
Product Name	65” NEC InfinityBoard	84” NEC InfinityBoard
Order Code	40001135	40001144
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
DISPLAY		
Panel Technology	S-IPS with Edge LED backlights	
Active Screen Area (W x H) [mm]	1,428 x 804	1,860 x 1,046
Screen Size [inch/cm]	65 / 165	84 / 213.5
Brightness [cd/m²]	450; 270 Eco (shipment setting)	500; 300 Eco (shipment setting)
Contrast Ratio (typ.)	1300:1	1400:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)	
Response Time (typ.) [ms]	8 (grey-to-grey)	12 (grey-to-grey)
Haze Level [%]	10	
Supported Orientation	Face Up; Landscape; Portrait	
SYNCHRONISATION RATE		
Horizontal Frequency [kHz]	31.5 - 91.1 (analog and digital)	
Vertical Frequency [Hz]	50 - 85	
RESOLUTION		
Native Resolution	3840 x 2160 at 60 Hz	
Supported on DisplayPort and HDMI	3840 x 2160 (24/30 Hz); 1920 x 1080; 1600 x 1200; 1360 x 768; 1280 x 1024; 1280 x 768; 1080i; 1080p; 1024 x 768; 800 x 600; 720p (50/60 Hz); 640 x 480; 480p (60 Hz)	
CONNECTIVITY		
Input Video Digital	1x DisplayPort (with HDCP); 2x DVI-D (with HDCP); 4x HDMI (with HDCP)	
Input Audio Analogue	1x 3.5 mm jack	
Input Audio Digital	1x HDMI; DisplayPort	
Input Control	LAN 100Mbit; remote control wire (3.5 mm jack); RS-232	
Output Control	LAN 100Mbit	
Remote Control	LAN with SNMP; Remote Control IR (internal / external (optional) sensor); RS-232C (9-pin D-sub) Input	
OPEN MODULAR INTELLIGENCE		
Slot Technology	Open pluggable specification (NEC / Intel OPS standard)	
Inrush Current [A]:	max. 10	
Power Consumption [W]:	max. 61	
Voltage / Current [V/A]:	16/4	

NEC InfinityBoard

	65” NEC InfinityBoard	84” NEC InfinityBoard
ELECTRICAL		
Power Consumption [W]	164 Eco (shipment setting); 212	342 Eco (shipment setting); 512
Power Savings Mode [W]	< 0.5 (ECO Standby); < 2.5	
Power Management	VESA DPMS	
ENVIRONMENTAL CONDITIONS		
Operating Temperature [°C]	+0 to +35	
Operating Humidity [%]	20 to 80	
MECHANICAL		
Bezel Width [mm]	19.7 (top and bottom); 19.9 (left and right)	22
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); M8	
Dimension (W x H x D) [mm]	1,724 x 881 x 91	2,179 x 1,151 x 90
Weight [kg]	75	97
GLASS		
Thickness [mm]	3	
Type	Premium toughened protective glass, anti-glare coating	
Light Transmission [%]	≥ 88%	
TOUCH		
Touch Technology	InGlass™ Touch	
Number of Touches	Real Multi-Touch with up to 20 touch points	
Response Time [ms]	≤ 15	
Touch Active Area (W x H) [mm]	1,428 x 804	1,862 x 1,049
Touch Method	Finger; Gloves; Stylus (≥ 2 mm)	
Operating System	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista	
Data Interface	USB-HID	
Accuracy [mm]	< 1	
PACKAGE		
Dimension (W x H x D) [mm] (Weight [kg])	Box 1: 1,736 x 1,054 x 320 (75) Box 2: 1,000 x 200 x 200 (9) Box 3: 430 x 310 x 265 (2)	Box 1: 1,736 x 1,054 x 320 (100) Box 2: 1,000 x 200 x 200 (11.2) Box 3: 430 x 310 x 265 (2)
ADDITIONAL FEATURES		
Special Characteristics	Carbon footprint meter; DICOM support; NaViSet Administrator 2	
Colour Versions	Black Front Bezel, Black Back Cabinet	
Safety and Ergonomics	CE; RoHS	
Audio	Integrated Speakers (10 W + 10 W); External Speakers (40 W + 40 W)	
Operating Hours	24/7	
Warranty	3 years warranty incl. backlight; additional services available; optional 4th and 5th year warranty extension	
Drawings	Available on SolutionsPLUS www.solutionsplus.nec-display-solutions.com	

For additional pictures and Solutions overview,
Visit www.nec-display-solutions.com for details.

RoHS compliant

CE

NEC Display Solutions Europe GmbH
Landshuter Allee 12-14, D-80637 München
infomail@nec-displays.com
Phone: +49 (0) 89 99 699-0
Fax: +49 (0) 89 99 699-500
www.nec-display-solutions.com

UniKomp.pl
Nowe Technologie IT
ul. Dworcowa 8
43-200 Pszczyna
sklep@unikomp.pl
www.wyswietlanie.pl
Telefony
(32) 210 22 11
(32) 326 33 00
(32) 212 88 22

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