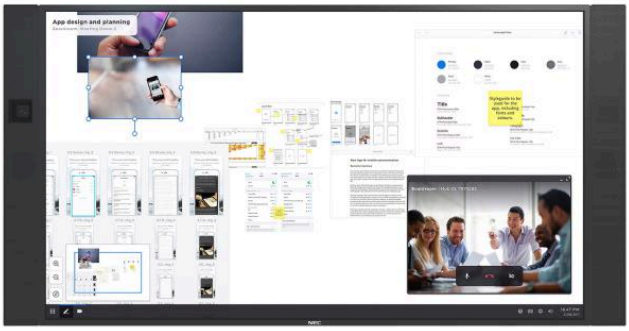
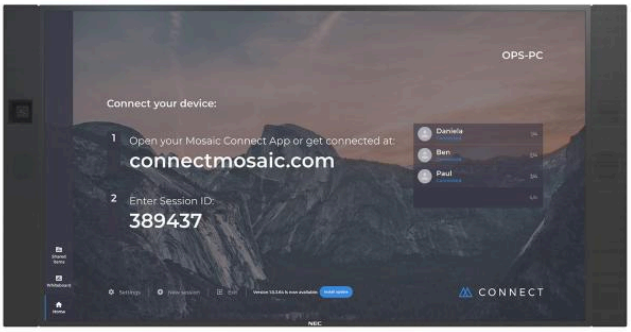
\Orchestrating a brighter world

NEC 86″ InfinityBoard® 2.1

LCD 86″ All-in-One Collaboration Solution

Datasheet





*incl. Huddly IQ

Big enough for your biggest ideas

NEC’s InfinityBoard is a powerful and scalable workspace that is designed to fit any meeting scenario. Brainstorming, reviewing, video conferencing or collaborating, whatever the objectives of your meeting, the InfinityBoard is the modular solution that’s here to help create your ideal meeting space. With a large screen size of 86’’ it’s perfect for think tanks and anywhere creativity demands a big canvas.

The InfinityBoard comes with an ultra-high definition InGlass™ touch display and two passive pens. Its design also includes an ultra-wide angle Huddly video conferencing camera and high-end conference speakers. The combination of an open platform and Windows 10 Professional allows to tailor the solution according to the customers' requirements without restriction to any particular software, video conferencing app or infrastructure. Uniting all this, the InfinityBoard facilitates smart collaboration in modern meeting spaces.

Benefits

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.

Simplify smart video conferencing – enjoy perfect audio and video quality with an integrated ultra-wide-angle camera with auto-framing and high-end conference speakers.

Future-proof PC option and 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.

Share without barriers – with Mosaic Connect multiple presenters can wirelessly present content from any device.

Custom fit to your application needs – Windows 10 Professional makes this a flexible solution that supports your staff by offering a familiar user-interface.

Product Information

Product Name	NEC 86″ InfinityBoard® 2.1
Product Group	LCD 86" All-in-One Collaboration Solution
Order Code	40001305

Display

Panel Technology	IPS with Edge LED backlights
Active Screen Area (W x H) [mm]	1,895 x 1,065.9
Screen Size [inch/cm]	86 / 217
Brightness [cd/m²]	500, 350 (shipment setting)
Contrast Ratio (typ.)	1200:1
Viewing Angle [°]	178 / 178 (at contrast ratio > 10:1)
Colour Depth [bn]	1.073 (10bit)
Response Time (typ.) [ms]	8 (grey-to-grey)
Haze Level [%]	Pro (28)
Supported Orientation	Face Up; Landscape; Portrait

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 91.1
Vertical Frequency [Hz]	24 - 85

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	4096 x 2160;	3840 x 2160;	1920 x 2160;	1920 x 1080

Connectivity

Input Video Digital	2 x DisplayPort (with HDCP); 3 x HDMI (with HDCP)
Input Audio Analogue	1 x 3,5 mm jack
Input Audio Digital	2 x DisplayPort; 3 x HDMI
Input Control	1 x LAN 100Mbit; 1 x Remote Control (3.5 mm jack); 1 x RS232
Input Data	1 x microSD (MediaPlayer); 1 x USB 2.0 (Downstream); 1 x USB 2.0 (MediaPlayer); 1 x USB Type-B (Upstream); 2 x USB 2.0 (Compute Module, 1 x 5V/2A powered)
Output Video Digital	1 x DisplayPort (loop through: DisplayPort, OPS slot-in PC)
Output Audio Analogue	1 x 3,5 mm jack
Output Control	1 x LAN 100Mbit
USB Hub	4x USB 3.0

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)
OPS Max. Current / Power Consumption [A / W]	4.7 / 75
Compute Module Slot	Slot Technology: Compute Module Slot (NEC proprietary standard)

Sensors

Human Sensor	Optional, external, 4-5m range, triggered actions programmable
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption Eco/max. [W]	242 shipping
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)
Power Management	VESA DPMS

Environmental Conditions

Operating Temperature [°C]	+0 to +35
Operating Humidity [%]	20 to 80

Mechanical

Dimensions (W x H x D) [mm]	Without stand: 2,192 x 1,142 x 86
Weight [kg]	91.7
Bezel Width [mm]	19.8 (top and bottom); 20.3 (left and right)
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); 600 x 400 (FDMI); M8
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	Box 1: 2,157 x 320 x 1,290; Box 2: 1,400 x 250 x 250
Packaging Weight [kg]	Box 1: 98; Box 2: 10.1

Glass

Thickness [mm]	3
Type	Premium toughened glass, anti-glare coating
Light Transmission [%]	88 (+/- 1 %)

Touch

Touch Technology	InGlass™ Touch
Number of Touches	Real multi-touch up to 20 touches
Response Time [ms]	≤ 15
Touch Method	Finger; Gloves; Stylus (≥ 2 mm)
Supported Operating System	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista, Mac OS X
Data Interface	USB-HID
Accuracy [mm]	< 1

MediaPlayer

Supported Image Formats	JPG (baseline, progressive, RGB, CMYK); max. resolution 5000 x 5000; PNG (interlace, alpha channel); max. resolution 4000 x 4000
Supported Video Formats	MP4 / MOV / FLV (video H.264, audio MP3, AAC); max. resolution 1080p at 30 Hz, 1080i at 60 Hz; MPG (video mpeg1/2, audio mpeg audio layer2/3, AAC-LC); MP @ ML, MP @ HL; WMV (video H.264, wmv advanced L3, wmv simple / main, audio mp3 wmv std); max. resolution 1080p at 30 Hz, 1080i at 60 Hz
Supported Audio Formats	MP3 (MP3); max. bit-rate 320 kBit/s; WAV (LPCM); max. 48 kHz sampling
Supported File Storage / File System	MicroSDHC / FAT16, FAT32; USB 2.0 / FAT16, FAT32

Video Conference Camera

Camera Model	Huddly IQ
Viewing Angle [°]	150 diagonal / 120 horizontal / 90 vertical
Resolution	Output HD 1080p 30fps
Aspect Ratio	16:9

Optical Capabilities	Digital Pan / Tilt / Zoom with 3x lossless digital zoom
Driver	Plug&Play, driverless install
Connectivity	SuperSpeed USB
Software Specification	3D noise reduction; 3DNR sensor-model-based visual noise reduction; Flicker elimination; Genius Framing; High-quality video scaling and dewarping; Huddly InSights analytics API; Optical aberration correction; Robust automatic white balance; Spatio-temporal noise filtering

Conference Speakers

Input (max.) [W]	40
Rated Speaker Impedance [Ω]	8
Frequency Response Rate [Hz-kHz]	70 to 15
Sound Pressure Level [dB]	82.1 (2.83 V)

OPS Slot-In PC

CPU	Intel® i7-7820EQ 4 x 3 GHz base frequency (up to 3.7 GHz turbo mode)
Graphics	630 integrated Gen9-LP graphics controller
SSD	up to 2 M.2 SSD (SATA), 128 GB
RAM	8 GB (DDR4), dual channel mode
Operating System	Microsoft Windows 10 Professional
Interfaces Frontside	1 x Micro Sim Card; 1 x USB 2.0; 1 x USB 3.1 Gen1 Type C; 2 x Antenna for WiFi; 2 x DisplayPort 1.2 ++; 2 x USB 3.0; RJ45 10 / 100 / 1000 Mbps
Interfaces Backside	Internal HDMI 1.4 or DisplayPort 1.2; Internal OPS interface to OPS slot-in PC (JAE 80-pin connector)
Wi-Fi	Intel Dual Band Wireless-AC 8260 802.11ac, dual band; Wi-Fi and bluetooth 4.2 adapter
Security	TPM (Trusted Platform Module)
EDID/DDC Support	Internal OPS Interface DisplayPort up to 4096 x 2160 at 60 Hz

Available Options

Accessories	Trolley (PD02MHA, PD03MHA); Wall mount (BalanceBox650, PDW T XL-2)
Compute Module Slot	NEC Compute Module; Raspberry Pi Compute Module 1 and 3

Green Features

Energy Efficiency	Carbon savings meter; ECOMode; Energy efficiency class: B; Local dimming

Additional Features

Special Characteristics	12-bit Look Up table; AMX NetLinx Support; ASCII Control Commands; Auto ID assignment; Auto tiling function; Automated Email Alert; CEC Support; Cisco Webex Kit compatible; Crestron Connected Support; DICOM Simulation; Display Browser Control; Emergency Notification; HDMI with UHD at 60 Hz; HDR Gamma Support (HLG, PQ); KeyGuide; MediaPlayer with Browser Control; NaViSet Administrator 2; OmniColor Control; OSD rotation for portrait mode; PIN as theft protection; PJLink Support; Powered USB-Port; Scheduler; Slim LED Indicator; SNMP Support; TileMatrix (10 x 10); User readable log function
Safety and Ergonomics	CE; EAC; EMC Class B; FCC; RCM; REACH; RoHS; UL/C-UL
Shipping Content	1x 10 cm USB Cable; 2 x Stylus; 2x 300 cm USB Cable; Cable Clamps; CD-ROM (User Guides/ Manuals); Display; DisplayPort Cable; Huddly Camera; OPS Slot-in PC; Power Cable; Remote Control; Side-mounted Speakers
Warranty	3 years warranty incl. backlight; optional 4. + 5. year warranty extension
Operating Hours	24/7



CE



RCM



RoHS

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