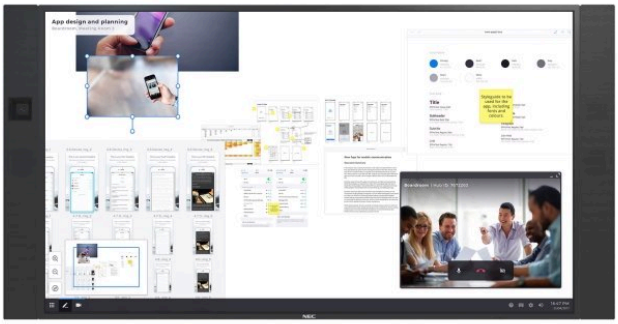
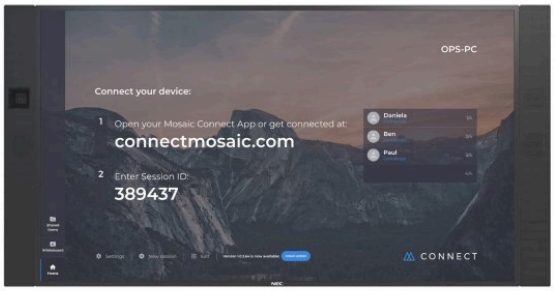
LCD 86" All-in-One Collaboration Solution

NEC 86" InfinityBoard® 2.0





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 or pen, the InGlass™ touch technology provides seamless interactive touch performance including Windows Ink and palm rejection.

Simplify video conferencing – get started with an integrated, ultra-wide-angle camera and high-class conference speakers for perfect audio clarity.

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.

Specifications

Product Information

Product Name
NEC 86" InfinityBoard® 2.0

Product Group
LCD 86" All-in-One Collaboration Solution

Order Code
40001244

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 [1]; Landscape; Portrait

Touch

Touch Technology
InGlass™

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 7-11, Linux, Android; Default Mouse: Windows XP and Vista, Mac OS

Data Interface
USB-HID

Accuracy [mm]
< 1

Protective Glass

Type
Premium toughened glass, anti-glare coating

Thickness [mm]
3

Light Transmission [%]
88 (+/- 1 %)

Resolution

Native Resolution
3840 x 2160

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

Synchronisation Rate

Horizontal Frequency [kHz]
31.5 - 91.1

Vertical Frequency [Hz]
24 - 85

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 3 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 [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/bottom); 20.3 (left/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

MediaPlayer

Supported File Storage / File System
MicroSDHC / FAT16, FAT32; USB 2.0 / FAT16, FAT32

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

Video Conference Camera

Camera Model
Huddly GO

Viewing Angle [°]
150 diagonal / 120 horizontal / 90 vertical

Resolution
Output HD 720p
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
3DNR sensor-model-based visual noise reduction; Flicker elimination; High-quality video scaling and dewarping; 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 / 0 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 0 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

Regulatory

Safety and Ergonomics
CE; EAC; EMC Class B; FCC; RCM; REACH; RoHS; SASO; UL/C-UL

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 - free download; 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

Shipping Content
1x 10 cm USB Cable; 2 x Stylus; 2x 300 cm USB Cable; Cable Clamps; Display; DisplayPort Cable; Huddly Camera; OPS Slot-in PC; Power Cable; Remote Control; Side-mounted Speakers; User Manual

Warranty
3 years warranty incl. backlight; optional 4. + 5. year warranty extension [2]

Operating Hours
24/7

[1] adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

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

CE

RoHS

RCM

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