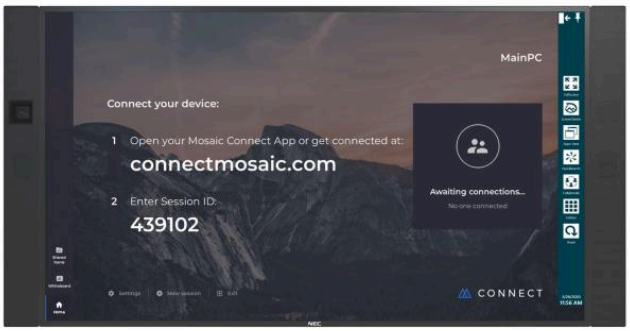
NEC 86″ InfinityBoard® 2.1 QL

LCD 86″ All-in-One Collaboration Solution

# Datasheet




**Your meeting room companion**

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.

Designed to ‘just work’, the InfinityBoard supports any scenario – from multiple presenters to large groups with remote participation. In virtual workspaces, collaboration lifts to a new level and interactive meetings boost group work efficiency.

The InfinityBoard comes with an ultra-high definition InGlass™ touch display and two passive pens. Its design also includes an ultra-wide angle Huddly IQ video conferencing camera and high-end conference speakers. The combination of an open platform slot-in PC 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. Quicklaunch™ is a simple and secure meeting room interface that provides multi-platform integration to transform the InfinityBoard into a one-click meeting space.

## 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.

**Easily launch and control any meeting** – just "One Touch"to join meetings, collaborating, share devices and more.

**Peace of mind** – room reset and lockdown mode make it a secure solution for IT and end users.

## Product Information

| | |
|---|---|
| Product Name | NEC 86″ InfinityBoard® 2.1 QL |
| Product Group | LCD 86" All-in-One Collaboration Solution |
| Order Code | 40001445 |

## 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 |

## 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™ |
| 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 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 IQ (no microphone) |
| Viewing Angle [°] | 150 diagonal / 120 horizontal / 90 vertical |
| Resolution | Output HD 1080p<br>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), 256 GB |
| RAM | 16 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 |

### Pre-installed Applications

| | |
|---|---|
| Software | FlatFrog Board (single user license); Hoylu (single user license); Mosaic Connect; Quicklaunch Ultimate Edition (incl. 3 years maintenance and support); Windows 10 Professional |

### Available Options

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|---|---|
| Accessories | Trolley (PD02MHA, PD03MHA); Wall mount (BalanceBox 650 HEAVY, 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; 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 [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



RCM




RoHS

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