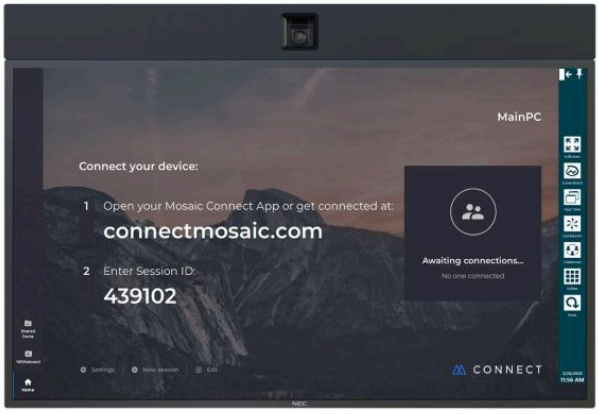
\Orchestrating a brighter world

NEC 55″ InfinityBoard® 2.1 QL

LCD 55″ 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.

Ease of Use – enhance the display with an optional "Windows based" Slot-in-PC using the integrated Ultra High Resolution OPS option slot, thereby simplifying installations and reducing the points of failure.

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

Product Information

Product Name	NEC 55″ InfinityBoard® 2.1 QL
Product Group	LCD 55" All-in-One Collaboration Solution
Order Code	40001442

Display

Panel Technology	IPS with Edge LED backlights
Active Screen Area (W x H) [mm]	1,209.6 x 680.4
Screen Size [inch/cm]	55 / 138.78
Aspect Ratio	16:9
Pixel Pitch [mm]	0.315
Brightness [cd/m²]	500
Contrast Ratio (typ.)	1100:1
Viewing Angle [°]	178 / 178 (at contrast ratio > 10:1)
Colour Depth [bn]	1.073 (10bit)
Response Time (typ.) [ms]	8 (grey-to-grey)
Panel Refresh Rate [Hz]	60
Haze Level [%]	Pro (28)
Supported Orientation	Face Up; Landscape; Portrait

Synchronisation Rate

Horizontal Frequency [kHz]	26 - 135
Vertical Frequency [Hz]	23 - 86

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	4096 x 2160; 1920 x 2160; 1920 x 1200; 1920 x 1080;	1650 x 1050; 1600 x 1200; 1440 x 900; 1400 x 1050;	1366 x 768; 1360 x 768; 1280 x 1024; 1280 x 720;	1024 x 768

Connectivity

Input Video Digital	1 x OPS Slot; 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	LAN 100Mbit; remote control wire (3,5mm jack); 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

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, 1 sensors, triggered actions programmable

Electrical

Power Consumption Eco/max. [W]	132 Eco (shipment setting), 182
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
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	1,284.5 x 877.3 x 90.6
Weight [kg]	46.82
Bezel Width [mm]	18.4 (bottom); 18.4 (left, right and top)
VESA Mounting [mm]	300 x 300 (FDMI); 4 holes; M6
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	Box 1: 1,430 x 250 x 920
Packaging Weight [kg]	Box 1: 48.3; Box 2: 9.8

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 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
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	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; 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 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

Microphone/Echo-Cancelling

Frequency [kHz]	32, sampling frequency
Bandwidth [Hz - kHz]	100 to 16
Echo Cancelling	2 levels of echo cancelling, aggressiveness and 3 levels of echo cancelling speed
Controllable Teil Length [mms]	up to 220
Noise Supression	Residual noise suppressed to environment noise level to prevent pumping noise
Pre-set Colour Filters	8 pre-set colour filters for both the output and the speaker signal
Delay [msec]	10
Mic Level [mV]	280 peak-to-peak
Line Level [V]	2/4 peak-to-peak
Boost [dB]	6

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

Accessories	Trolley (PD03 Tipster, PDMHM-L, PD02MHA, PD03MHA); Wall mount (PDW S 32-55 L, BalanceBox400-2)
Compute Module Slot	NEC Compute Module; Raspberry Pi Compute Module 1 and 3
OPS Slot	HDBaseT receiver; Intel® Atom, Celeron and Core CPUs; OPS-2C Quad 3G SDI

Green Features

Energy Efficiency	ECOMode; Energy efficiency class: B; Human Sensor; LED backlight

Additional Features

Special Characteristics	12-bit Look Up table; AMX NetLinx Support; Auto ID assignment; Auto tiling function; Automated Email Alert; CEC Support; Cisco Webex Kit compatible; Crestron Connected Support; Crestron RoomView Support; DICOM Simulation; Emergency Notification; HDMI with UHD at 60 Hz; HDR Gamma Support (PQ, HLG); Intelligent Wireless Data (based on NFC); KeyGuide; NaViSet Administrator 2; OSD rotation for portrait mode; PJLink Support; Powered USB-Port; Scheduler; Screen saver functions; SNMP Support; TileMatrix (10 x 10); USB Media Player
Safety and Ergonomics	CE; EAC; EMC Class B; FCC; RCM; REACH; RoHS; UL/C-UL
Pixel Failure Class	ISO 9241-307, Class 1
Audio	Integrated Speakers (10 W + 10 W)
Shipping Content	1x 10 cm USB Cable; 2 x Stylus; 2x 300 cm USB Cable; Cable Clamps; Collaboration Soundbar; Display; DisplayPort Cable; HDMI Cable; OPS Slot-in PC; Power Cable; Remote Control; User Manual
Operating Hours	24/7

CE RoHS RCM

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