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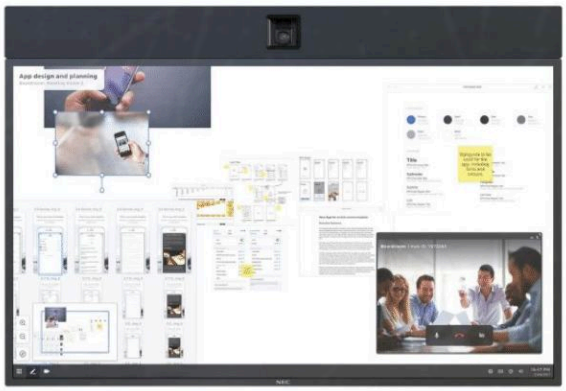
+971 454 65041 | info@procure.ae | www.procure.ae

NEC 55″ InfinityBoard® 2.1

LCD 55" All-in-One Collaboration Solution

Datasheet



*incl. Huddly IQ

Take your meeting anywhere you want

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.

This 55” screen size is designed for huddle spaces hosting smaller groups. It has an optimised collaboration bar, integrated microphone, and camera, so it’s easy to co-create documents and share ideas. It can be transferred room-to-room via a trolley and easily accommodates up to six people, making it the perfect spontaneous and informal meeting area.

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. 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 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 55″ InfinityBoard® 2.1
Product Group	LCD 55" All-in-One Collaboration Solution
Order Code	40001353

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 [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

Glass

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

Resolution

Native Resolution	3840 x 2160

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

Synchronisation Rate

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

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 3 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 [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 (TBD): (TBD) x (TBD) x (TBD); Box 1: 1,430 x 250 x 920
Packaging Weight [kg]	Box 1: 48.3; Box 2: 9.8

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 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), 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

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

Available Software

Free Software Included	Mosaic Connect
Software	FlatFrog Whiteboard; Hoylu (single user license); Windows 10 Professional

Available Options

Accessories	Trolley (PD03 Tipster, PDMHM-L, PD02MHA, PD03MHA); Wall mount (BalanceBox 400 MEDIUM, PDW S 32-55 L)
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

Regulatory

Safety and Ergonomics	CE; EAC; EMC Class B; FCC; RCM; REACH; RoHS; UL/C-UL
Pixel Failure Class	ISO 9241-307, Class 1

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 - free download; OSD rotation for portrait mode; PJLink Support; Powered USB-Port; Scheduler; Screen saver functions; SNMP Support; TileMatrix (10 x 10); USB Media Player
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

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