NEC MultiSync® M431 PCAP

LCD 43” PCAP Touch Display

Datasheet





Superior touch performance for demanding environments

Great first impressions can make all the difference; presenting your business in the best possible way will boost your brand. With a modern, bezel-free styling, 24/7 operation and reduced reflections when ambient light is high, the NEC MultiSync® M series PCAP touch engages audiences and facilitates collaboration.

With the powerful Intel® Smart Display Module (Intel® SDM) computing device, you are primed and ready to provide an exceptional interactive experience to your customers. Perfectly suited to the rigors of public usage, the robust glass surface is resistant to scratches whilst its anti-glare property makes the M series PCAP touch models suitable for use even in areas of high ambient light.

Benefits

Modern and easy to clean design – edge-to-edge allowing for unobtrusive integration into any application and environment.

Exceptional touch performance – with up to 20 touch points the PCAP technology offers excellent touch responsiveness for both finger and pen usage

Unhindered readability – no reflections from windows or other light sources means no disruption to the visibility of signage content or meeting room presentation

Mission-critical 24/7 ready operation – the meticulous selection of industrial-grade components and careful design focused on demanding usage scenarios accompany an impressive and continuous viewer experience.

Secure remote management – control your devices remotely and securely using NEC NaviSet Administrator 2; proactively manage maintenance requirements saving time and resources

Product Information

Product Name	NEC MultiSync® M431 PCAP
Product Group	LCD 43" PCAP Touch Display
Order Code	60005076

Display

Panel Technology	IPS with Edge LED backlights
Screen Size [inch/cm]	43 / 108
Aspect Ratio	16:9
Brightness [cd/m²]	500
Contrast Ratio (default)	> 8000:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Depth [bn]	1,076 (10bit)
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Supported Orientation	Face Up [1]; Landscape; Portrait

Glass

Thickness [mm]	3.6
Light Transmission [%]	85 (+/- 5 %)
Haze Level [%]	5 ~ 10
Hardness [H]	6

Synchronisation Rate

Horizontal Frequency [kHz]	26 - 91.1
Vertical Frequency [Hz]	23 - 86

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;	2560 x 1440; 2560 x 1600; 3840 x 2160; 4096 x 2160

Connectivity

Input Video Digital	1 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)
Input Audio Digital	1 x DisplayPort; 2 x HDMI
Input Control	LAN 100Mbit; remote control wire (3,5mm jack); RS232
Input Data	1 x USB 2.0 (MediaPlayer)
Output Audio Analogue	1 x 3,5 mm jack
Input Detect	Custom; First; Last
PiP/PbP	Quad-Split; scalable picture size; Triple-Split

Open Modular Intelligence

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 45 W; compatible with Intel Celeron CPUs or CPUs with lower power consumption
Compute Module Slot	RPi Compute Module 4

Sensors

Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption Eco/max. [W]	80 shipping
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)
Power Management	VESA DPMS
Power Supply	100-240 V AC; 50/60 Hz

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]	1,003.4 x 595.1 x 74.42
Weight [kg]	24.8
Bezel Width [mm]	Edge-to-edge flush design (no bezel)
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: 1,120 x 700 x 203
Packaging Weight [kg]	Box 1: 30

Touch

Touch Technology	PCAP
Number of Touches	Real multi-touch up to 20 touches
Touch Method	Conductive Passive Stylus; Finger
Supported Operating System	Android; Linux; Raspberry Pi; Windows
Data Interface	USB-HID
Accuracy [mm]	+/- 1.5
Palm Rejection	no
Windows Ink	no

MediaPlayer

Supported File Storage / File System	USB 2.0 / FAT16, FAT32
Supported Image Formats	JPG (baseline, progressive, RGB, CMYK); max. resolution 15360 x 8640
Supported Video Formats	MPG (MPEG1/2/4, max res 1080p@30Hz); MP4 (MPEG2/4, H.263, H.264, HEVC/H.265, max res 3840x2160@60Hz); TS (MPEG2, H.264, HEVC/H.265, max res 3840x2160@60Hz); audio: LPCM, MP3, AAC; WMV (video H.264, Windows Media Video 9, max res 1080p@30Hz, audio WMA 9, WMA 10 Pro)
Supported Audio Formats	MP3 (MP3); max. bit-rate 320 kBit/s

Available Options

Accessories	Feet (ST-401; ST-43M); Presence Sensor (KT-RC3); Soundbar (SP-ASCM-IQ2; SP-ASCM-2; SP-AS2); Speaker (SP-RM3a); Trolley (PD04Tipster); Wall mount (PDW S 32-55 L/P)

Green Features

Energy Efficiency	Energy consumption: 68 kWh/1000 h; LED backlight
Ecological Standards	EnergyStar 8.0

Additional Features

Special Characteristics	DICOM Simulation; HDMI ARC; Powered USB Port (10 W)
Safety and Ergonomics	CE; EAC; RoHS
Pixel Failure Class	ISO 9241-307, Class 1
Audio	Integrated Speakers (10 W + 10 W)
Shipping Content	2x AAA batteries; Display; HDMI Cable; Power Cable; Remote Control; Setup Manual; USB cable
Warranty	3 years warranty incl. backlight; additional services available
Operating Hours	24/7
External Control	AMX NetLinx Support; ASCII Control Commands; Crestron Connected; HDMI CEC; HTTP Browser; PJLink; Scheduled Timer; SNMP
Remote Management	Automated Email Alerts; NEC NaViSet Administrator 2
Security	Disable HW Buttons; Disable IR Functionality; Emergency Notification

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

CE RoHS

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