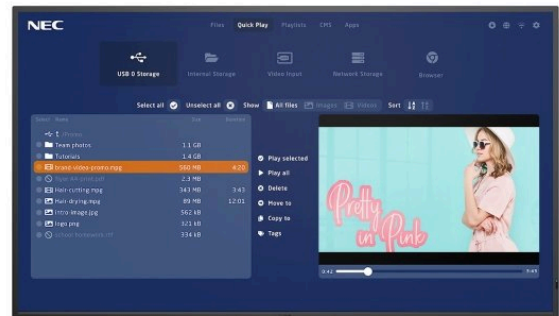# SHARP/NEC

NEC MultiSync® M431-MPi4
LCD 43" Midrange Large Format Display (incl. NEC MediaPlayer)

Datasheet

Digital signage and real-time information deployed easily

Initiating effective communication to your target audience has never been easier to plan, install and operate. Deploying Signage with consistently updated information, real-time content adaption and scheduling has never been so simple.

The MultiSync® M-MPi4 displays provide a sleek combination of intuitive media playback with professional digital display technology for impactful messaging in retail environments, leisure and museum applications as well as quick service restaurants. Fitting perfectly into corporate environments and public spaces, the modern, slim design integrates seamlessly with the surrounding architecture whilst the 500 cd/m² brightness output and anti-glare surface ensures excellent viewing.

Future-proof and upgradable, the NEC MediaPlayer software is powered by a pre-installed modular SoC Raspberry Pi module. Enabling remote operation of single and multiple display installations, benefit from flexible usage of many media types and a scheduling function for smart content management. For specific feature demands, the NEC MediaPlayer grants easy switching to the integrated Content Management Systems directly.

Benefits

Modern and slim design – robust yet elegant allowing for an unobtrusive integration into any application and environment.

Intuitive Plug & Play solution – even when not familiar with using digital signage, users can facilitate stunning signage creation for immersive real-time visual experiences

Install third party software – expand the NEC MediaPlayer functionality via additional Apps or even switch to your preferred Content Management Systems (CMS) directly from of the NEC MediaPlayer

Everything under control – one single interface is needed to manage both the NEC MediaPlayer and the display directly, via a web-interface or the NEC Display remote control.

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

Product Information

Product Name	NEC MultiSync® M431-MPi4
Product Group	LCD 43" Midrange Large Format Display (incl. NEC MediaPlayer)
Order Code	60005380

Display

Panel Technology	IPS with Edge LED backlights
Screen Size [inch/cm]	43 / 108
Aspect Ratio	16:9
Brightness [cd/m²]	500
Contrast Ratio	≥ 8000:1 [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
Haze Level [%]	Pro (28)
Supported Orientation	Landscape; Portrait

Synchronisation Rate

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

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	4096 x 2160;	1920 x 2160;	1600 x 1200;	1360 x 768;
	3840 x 2160;	1920 x 1200;	1440 x 900;	1280 x 1024;
	2560 x 1600;	1920 x 1080;	1400 x 1050;	1280 x 720;
	2560 x 1440;	1650 x 1050;	1366 x 768;	1024 x 768

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

Open Modular Intelligence

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 45 W
Compute Module Slot	RPi Compute Module 4

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable
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; internal

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 80
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	968.2 x 561 x 67.1
Weight [kg]	17.8
Bezel Width [mm]	11 (left, right and top); 15.6 (bottom)
VESA Mounting [mm]	300 x 300 (FDMI); 4 holes; M6
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	1,120 x 700 x 203
Packaging Weight [kg]	Box 1: 23
Colour Bezel	Pantone 426M (black)
Material	Metal

MediaPlayer

Supported File Storage / File System	USB 2.0 / FAT16, FAT32
Internal Storage	32GB eMMC (2GB occupied by OS, 28GB available for files)
Processor	Cortex-A72 (ARMv8) 64-bit SoC @ 1.5GHz
Supported Image Formats	JPG / JPEG; PNG
Supported Video Formats	MP4 / MOV /AVI / MPEG/ WMV / MPG / M4V / VOB / MKV (H.265); MPEG-2; M4K; VP8 / VP9; HTML5
Supported Audio Formats	MP3; AAC; AC-3

Available Options

Accessories	Feet (ST-401/ST-43M); Soundbar (active: SP-ASCM-IQ2 / SP-ASCM-2); Speaker (SP-RM3a); Trolley (PDMHM-L); Wall mount (PDW C L and P, PD02W T M L, PD03W T M P)

Green Features

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

Additional Features

Special Characteristics	DICOM Simulation; HDMI ARC; Powered USB Port (10 W); Removable Logo
Safety and Ergonomics	Energy Star 8.0
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; Pre-installed MPi4 MediaPlayer Kit; Remote Control; Setup Manual
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension [2]
Operating Hours	24/7

External Control	AMX NetLinx Support; ASCII Control Commands; 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
Resistance to Fire	Metal backcover, plastic material certified acc. to UL94-5VB

[1] out of the box conditions, local dimming ON

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