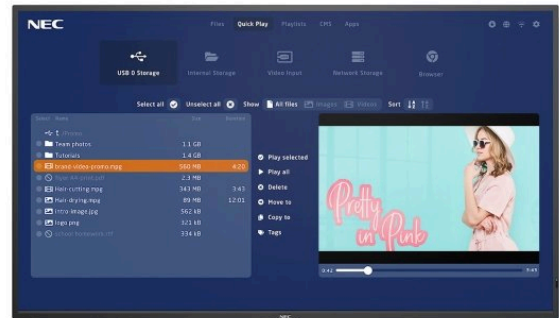


NEC MultiSync® ME431-MPi4 LCD 43" Message Essential Large Format Display

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® ME-MPi4 displays offer out-of-the-box playback for local retailers, restaurants and small business enterprises. With the NEC MediaPlayer you can deliver dynamic advertising and infotainment to your customers whilst benefiting from the efficiencies gleaned through digitisation.

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® ME431-MPi4 |
| Product Group | LCD 43" Message Essential Large Format Display |
| Order Code | 60005372 |

Display

| | |
|---------------------------------|---|
| Panel Technology | IPS with Direct LED backlights |
| Screen Size [inch/cm] | 43 / 108 |
| Aspect Ratio | 16:9 |
| Brightness [cd/m ²] | 400 |
| Contrast Ratio | ≥ 8000:1 ¹ |
| Viewing Angle [°] | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |
| Colour Depth [bn] | 1.073 (8bit + FRC) |
| Response Time (typ.) [ms] | 8 |
| Panel Refresh Rate [Hz] | 60 |
| Haze Level [%] | Standard (1) |
| Supported Orientation | Landscape; Portrait |

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 |

Synchronisation Rate

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

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; 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 [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] | 973 x 561.2 x 62.6 |
| Weight [kg] | 13.9 |
| Bezel Width [mm] | 13.9 |
| VESA Mounting [mm] | 200 x 200 (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] | 19.6 |
| 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-43M); Presence Sensor (KT-RC3); Soundbar (active: SP-ASCM-IQ2 / SP-ASCM-2); Speaker (SP-RM3a); Trolley (PD04-Tipster Trolley); Wall mount (PDW S 32-65 L, PDW S 32-65 P) |
|-------------|---|

Green Features

| | |
|----------------------|--|
| Energy Efficiency | Energy consumption: 77 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 | BSMI; CE; EAC; EMC Class B; Energy Star 8; FCC Class B; KC/KCC; PSB; RCM; RoHS; VCCI |
| 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 | 18/7 |

| | |
|--------------------|--|
| 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 |
| 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



VCCI



CE



RCM



FCC Class B



RoHS

This document is © 2023 Sharp NEC Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers. All specifications are subject to change without notice. Errors and omissions are excepted. 27.11.2023