

NEC MultiSync® M431-2 LCD 43" Message Large Format Display

Datasheet



Intuitive professional content delivery

Great first impressions can make all the difference; presenting your business in the best possible way will boost your brand. With slim, modern styling, 24/7 operation and high haze panel to reduce reflections when ambient light is high, the Mxx1-2 series is the professional way to deliver your message, yet at an attractive price point.

With the optional Raspberry PI Compute Module or the more powerful Intel® Smart Display Module (Intel® SDM) computing device, you are primed and ready for intuitive signage creation delivering real-time media playback for exceptional visual experiences. For advertising, infotainment and meeting room applications, the Mxx1-2-2 Series provides powerful, upgradable functionality and all the aesthetic appeal to effortlessly reflect your brand credentials.

Benefits

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

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

Ease of use and operation - smart installation, operation and maintenance functionality ensures accurate performance over the entire lifetime of the display saving time, effort and resources.

Future Ready Connectivity - featuring multiple industry standard digital and analogue signal inputs for flexible integration into AV infrastructures.

Effortless content playback - the integrated USB media player supports various image video file formats for effortless and standalone content playback.

Product Information

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|---------------|--------------------------------------|
| Product Name | NEC MultiSync® M431-2 |
| Product Group | LCD 43" Message Large Format Display |
| Order Code | 60006083 |

Display

| | |
|---------------------------------|---|
| Panel Technology | IPS with Direct LED backlights |
| Screen Size [inch/cm] | 43 / 108 |
| Aspect Ratio | 16:9 |
| Brightness [cd/m ²] | 500 |
| Contrast Ratio | ≥ 8000:1 ¹ |
| Viewing Angle [°] | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |
| Colour Depth [bn] | 1.073 (8bit + FRC) |
| HDR | HDR10; HLG; PQ |
| Response Time (typ.) [ms] | 8 |
| Panel Refresh Rate [Hz] | 60 |
| Haze Level [%] | Pro (25) |
| Supported Orientation | Landscape; Portrait |

Resolution

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|-----------------------|---|--|--|-----------------------------|
| 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; | 3840 x 2160; 4096 x 2160 |

Synchronisation Rate

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

Connectivity

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

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| 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

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| Temperature Sensor | Integrated, 3 sensors, triggered actions programmable |
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Electrical

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

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

Mechanical

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

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

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| Accessories | Feet (ST-43M); Presence Sensor (KT-RC3); Trolley (PD04-Tipster Trolley); Wall mount (PDW S 32-65 L, PDW S 32-65 P) |
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Regulatory

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| 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 |
| Resistance to Fire | Metal backcover, plastic material certified acc. to UL94-5VB |

Green Features

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| Energy Efficiency | Energy consumption: 77 kWh/1000 h; Energy efficiency class: G; LED backlight |
| Ecological Standards | EnergyStar 8.0 |

Additional Features

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| Special Characteristics | DICOM Simulation; HDMI ARC; Powered USB Port (10 W); Removable Logo |
| Audio | Integrated Speakers (10 W + 10 W) |
| Shipping Content | 2x AAA batteries; Display; HDMI Cable; Power Cable; 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; 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 out of the box conditions, local dimming ON

² please refer to terms and conditions of warranty extensions



FCC Class B



VCCI



RCM



CE



RoHS

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