

MultiSync® V484-RPi

LCD 48" Midrange Large Format Display (incl. RPi 3 Compute Module)

Datasheet



The smartest choice for digital signage

For compelling Digital Signage results, NEC's MultiSync® V484-RPi combines professional display capabilities with the smartness of Raspberry Pi computing at the lowest operational investment.

Pre-installed into the 48" signage display, the NEC Edition of the Raspberry Pi 3 Compute Module boosts the display performance to suit any visual application and opens a gateway to the IoT. The NEC Edition tops the standard Raspberry Pi performance with extended memory capabilities and intelligent digital signage support such as the Watch Dog Timer and Real Time Clock for scheduling. Convincing visibility under common light conditions is guaranteed thanks to the combination of 500 cd/m² brightness output and an anti-glare surface. The modern and slim design is the perfect fit to complement the surrounding architecture as well as for integration into any application and environment.

The MultiSync® V484-RPi provides the smartest combination of embedded computing power with professional digital signage displays for short and medium viewing distances and big messages in retail applications, leisure and museum environments, quick service restaurants, for corporate signage and all other public spaces.

Benefits

Designed for professional Digital Signage – the NEC Edition features an extended onboard memory of 16 GB, a Watch Dog Timer and a Real Time Clock as well as pre-loaded licences for video decoding to meet the particular demands of professional signage applications

Powerful possibilities – the Quad Core 1.2 GHz processor provides amazing performance for crisp Full HD playback with an unrivalled price-performance ratio.

Unlimited versatility – supporting a broad range of operating systems, this open platform offers high flexibility for digital signage software providers and system integrators.

Reliable colour reproduction – due to 10-bit colour performance, extreme viewing angles and hardware calibratable LUT, viewers benefit from consistently accurate image rendering.

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.

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

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.

Cost Saving Device Management - save effort whilst managing all connected NEC devices from a centralised location by using the NaViSet Administrator 2 software tool.

Product Information

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|---------------|--|
| Product Name | MultiSync® V484-RPi |
| Product Group | LCD 48" Midrange Large Format Display (incl. RPi 3 Compute Module) |
| Order Code | 60004406 |

Display

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|---------------------------------|---|
| Panel Technology | S-PVA with edge LED backlights |
| Active Screen Area (W x H) [mm] | 1,054.1 x 592.9 |
| Screen Size [inch/cm] | 48 / 120.9 |
| Brightness [cd/m²] | 500, 350 Eco (shipment setting) |
| Contrast Ratio (typ.) | 4000:1 |
| Viewing Angle [°] | 178 / 178 (at contrast ratio > 10:1) |
| Colour Depth [bn] | 1.073 (10bit) |
| Response Time (typ.) [ms] | 8 (grey-to-grey) |
| Haze Level [%] | Pro (25) |
| Supported Orientation | Landscape, Portrait, Face Up, Face Down |

Synchronisation Rate

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|----------------------------|----------------------------------|
| Horizontal Frequency [kHz] | 31.5 - 91.1 (analog and digital) |
| Vertical Frequency [Hz] | 24 - 85 |

Resolution

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| Native Resolution | 1920 x 1080 | | | |
| Supported Resolutions | 4096 x 2160; 3840 x 2160; 1920 x 2160; 1920 x 1200; 1920 x 1080; | 1680 x 1050; 1600 x 1200; 1440 x 900; 1400 x 1050; 1366 x 768; | 1360 x 768; 1280 x 1024; 1280 x 960; 1280 x 800; 1280 x 720; | 1024 x 768; 800 x 600; 640 x 480 |

Connectivity

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| Input Video Analogue | 1 x VGA |
| Input Video Digital | 1 x DVI-D (with HDCP); 2 x DisplayPort (with HDCP); 2 x HDMI (with HDCP) |
| Input Audio Analogue | 2 x 3,5 mm jack |
| Input Audio Digital | 2 x DisplayPort; 2 x HDMI |
| Input Control | 1 x LAN 100Mbit; 1 x Remote Control (3.5 mm jack); 1 x RS232 |
| Input Data | 1 x microSD (MediaPlayer); 1 x USB 2.0 (MediaPlayer); 1 x USB 2.0 (Service); 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

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| OPS Slot | Slot Technology: Open pluggable specification (NEC / Intel OPS standard) |
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| OPS Max. Current / Power Consumption [A / W] | 10 / 61 |
| Compute Module Slot | Slot Technology: Compute Module Slot (NEC proprietary standard) with pre-installed Raspberry Pi 3 Compute Module NEC Edition |
| Compute Module Specification | Realtime clock; Watchdog Timer CPU: Quad Core 64-bit ARM Cortex A53 @ 1.2GHz; VideoCore IV GPU Graphics: 1.2GPixel / sec OpenGL ES 2.0 3D; Hardware video encode / decode (MPEG2, MPEG4, H.264, VC-1 up to 1080p60) Memory: 16GByte on-board eMMC RAM: 1GByte LPDDR2 SDRAM OS: Standard: Raspbian Jessie with PIXEL Other supported OS: RISC OS; Various Linux flavours (Arch, Ubuntu); Win10 IoT |

Sensors

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| Ambient Light Sensor | Integrated, triggered actions programmable |
| Human Sensor | Optional, external, 4-5m range, triggered actions programmable |
| Temperature Sensor | Integrated, 3 sensors, triggered actions programmable |
| NFC Sensor | Integrated, 2cm range, free NEC Android App required |

Electrical

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| Power Consumption Eco/max. [W] | 85 Eco (shipment setting), 105 |
| Power Savings Mode [W] | < 0.5 (ECO Standby); < 3 (Networked Standby) |
| Power Management | VESA DPMS |

Environmental Conditions

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| Operating Temperature [°C] | +0 to +40 |
| Operating Humidity [%] | 20 to 80 |

Mechanical

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| Dimensions (W x H x D) [mm] | 1,086.5 x 625.3 x 54.7 |
| Weight [kg] | 17.6 |
| Bezel Width [mm] | 13.2 (left and right); 13.2 (top and bottom) |
| VESA Mounting [mm] | 300 x 300 (FDMI); 4 holes; M6 |
| Ingress Protection | IP5X (front); IP2X (back) |

MediaPlayer

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

Available Options

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| Accessories | Feet (ST-401); Speaker (SP-TF1, SP-484SM); Trolley (PDMHM-L, PD02MHA, PD03MHA); Wall mount (PDW S 32-55 L and P, PD02W T M L, PD03W T M P) |
| Compute Module Slot | NEC Compute Module; Raspberry Pi Compute Module 1 and 3 |

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| OPS Slot | HD-SDI 1.5G, 3G; HDBaseT receiver; Intel® Atom, Celeron and Core CPUs; OPS-2C HDMI + DP Interface; OPS-2C Quad 3G SDI |
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Green Features

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| Energy Efficiency | Ambient light sensor; Annual energy consumption: 146 kWh (based on 4 operating hours per day); Carbon savings meter; ECOMode; Energy efficiency class: B; Human Sensor |
| Ecological Materials | Manuals on CD; Optional feet |
| Ecological Standards | EnergyStar 7.0 |

Additional Features

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|-------------------------|---|
| Special Characteristics | Ambient Light Sensor; AMX NetLinx Support; ASCII Control Commands; Auto ID assignment; Auto tiling function; Automated Email Alert; CEC Support; Crestron RoomView Support; DICOM Simulation; Display Browser Control; Emergency Notification; Full System Scheduler; Hardware colour calibration possible; Image flip; Intelligent Wireless Data (based on NFC); KeyGuide; MediaPlayer with Browser Control; NaViSet Administrator 2; OmniColor Control; OSD rotation for portrait mode; PJLink Support; Point Zoom Function; Powered USB-Port; Programmable 12-bit LUT with 3 memory banks; Removable Logo; Secure Mode Operation; Slim LED Indicator; SNMP Support; TileMatrix (10 x 10); User readable log function; Various picture in picture options |
| Colour Versions | Black Front Bezel, Black Back Cabinet; optional coloured overframes |
| Safety and Ergonomics | Display: C-Tick; CE; EMC Class B; FCC; PSB; RoHS; TÜV GS; UL/C-UL Compute Module: CE; FCC |
| Audio | Integrated Speakers (10 W + 10 W); Optional Speakers (15 W + 15 W) |
| Shipping Content | CD-ROM (User Guides/Manuals); Display; DVI-D cable; Power Cable; Remote Control |
| Warranty | 3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension |
| Operating Hours | 24/7 |

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