**SHARP / NEC**

# MPi4 Kit powered by Raspberry Pi
## Making Digital Signage simpler and more flexible

The MPi4 Kit in combination with NEC Large Format Displays leaves nothing to be desired



Seamlessly embedded into professional and modular NEC Large Format Displays, the MPi4 Kit boosts the display performance to suit any visual application. This open-platform solution offers unrivalled flexibility and performance in creating customised display applications whilst securing futureproof operation with an upgrade path through its modular and exchangeable slot design. CMS, Software providers and users benefit from the vast number of already available open source solutions accessible from the global Raspberry Pi developers community. MPi4 Kit offers features for intelligent Digital Signage support such as the Watch Dog Timer and Real Time Clock for scheduling. The Ethernet and USB interfaces of the display interface board allow easy integration into a network or connection with external devices such as mouse/keyboard, sensors and touch.

The MPi4 Kit is the smartest combination of computing power with professional yet cost-effective Signage displays for use in retail environments, passenger information, quick service menu boards and many more applications.

## Delivering Genuine Benefits

- **Future-Proof with Open Modular Intelligence Expansion –** Upgrade the power of the display by escalating the computing power at any time to boost performance capability.

- **Powerful possibilities –** the Quad Core 1.5 GHZ processor provides amazing performance and supports 4K/UHD playback with an unrivalled price-performance ratio.

- **Designed for professional Digital Signage –** offering features like 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.

- **Unlimited versatility –** Supporting a broad range of operating systems, this open platform offers high flexibility for digital signage software providers and (CMS) system integrators.

- **Seamless and fully embedded –** Simply slotted into the display for a fully integrated solution, external mounting is obsolete. An elegant, cable-free solution with internal connection for power, video, audio, data and all control interfaces.

- **Economical –** enjoy high performance and low energy use with associated savings.

- **High reliability –** the use of industrial grade components and our advanced heat management makes this solution ideally suited for 24/7 operation.

- **Trusted state-of-the-art technology –** Raspberry Pi computing is a worldwide success story with proven high reliability and an unmatched price-performance ratio making it attractive for professional applications.

- **Wireless technology built-in –** the MPi4 Kit WiFi comes with a built-in WiFi module and external antenna to achieve bestcommunication when slotted in to the display.

# Technical Specifications

| Order Codes | |
|---|---|
| **MPi4 Kit RaspberryPi OS optimized** | 100016266 |
| **MPi4 Kit WiFi RaspberryPi OS optimized** | 100016366 |
| CPU | Quad Core 64-bit ARM Cortex 72 (ARM v8) @ 1.5GHz, VideoCore IV GPU |
| Graphics | Hardware video encode / decode H.265 (HEVC) (up to 4Kp60 decode), H.264 (up to 1080p60 decode, 1080p30 encode), OpenGL ES 3.0 graphics |
| Memory | 32 GByte on-board eMMC |
| RAM | 4Gbyte LPDDR2 SDRAM |
| Operating System | Built to order / Raspberry Pi OS optimised for Signage |
| Dimensions (W x H x D) | 55mm × 40mm × 4.7mm |
| Resolution | up to 4K/60p |
| Others | Includes licenses for H.264 and H.265 hardware CODECs |
| Certificates | CE, FCC certification |
| Warranty | 3 Years |

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|---|---|
| Interfaces | Connected External Display Interfaces:<br>2 x USB A, (USB 2.0)<br>1 x RJ45 Gigabit |
| WiFi | With MPi4 Kit WiFi only:<br>1x WiFi module (2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless)<br>1x antenna rod for WiFi antenna |
| Other features | WatchDog Timer, Realtime clock (in combination with supported NEC large format displays) |
| Dimensions (W x H x D) [mm] | 114.5 x 26.0 x 133.7 |
| Certificates | CE, FCC certification |
| Compatible displays | ME431 (IR-2), ME501 (IR-2), ME551 (IR-2), ME651, M431 (PCAP/PG), M491 (PCAP/PG), M551 (PCAP/PG), M651 (PCAP/PG), M751, M861, M981, MA431, MA491, MA551, P435, P495, P555 |
| Warranty | 3 Years |