

SDM MPi5 Kit powered by Raspberry Pi.



Cost Effective Performance. Modular Flexibility. AI-Ready.

The MPi5 Kit marks an important milestone in the evolution of embedded computing for professional displays. It combines the well known and proven Intel Smart Display Module (SDM) standard, with the best cost effective computing solution from Raspberry Pi, its Compute Module 5.

Target applications include flight information display systems (FIDS), wayfinding, information displays and other mission-critical digital signage use cases, where reliability, control and rapid system adaptation are essential.

- **Cost Effective Performance** - Delivering the highest performance throughput required for 4K video playback and real-time edge processing.
- **Unlimited versatility** - supporting a broad range of operating systems, this open platform offers high flexibility for digital signage software providers (CMS) and system integrators.
- **Seamless and fully embedded** - simply slotted into the display for a fully integrated solution, external mounting is obsolete. An elegant, cablefree solution with internal connection for power, video, audio, data and all control interfaces.
- **Modular & Cable-Less** - Simplifies installation and maintenance by sliding directly into the SDM-L slot of your Sharp display.
- **Modularity at its best** - with the M.2 connector you can expand your internal storage, or even create a AI powered signage display using Hailo accelerators.
- **Soundless & Robust** - Fanless, silent operation designed for distraction-free environments, built specifically for continuous, dependable 24/7 operation in any orientation.

Specifications

Order Codes

SDM MPi5 Kit	L50MPI5KIT-16592
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Player Configuration

CPU	Quad Core 64-bit ARM Cortex 76 (ARM v8) @ 2.4GHz
Embedded storage	32 GByte on-board eMMC
Graphics performance	Hardware video encode / decode H.265 (HEVC) (up to 4Kp60 decode), H.264 (up to 1080p60 decode, 1080p30 encode), OpenGL ES 3.1 graphics, Vulkan 1.3
Operating System	Raspberry Pi OS, optimised for signage applications

Connectivity

Interfaces Frontside	HDMI-out RJ45: Gigabit 1x USB 3.1 gen 2 (data) 1x USB-C (service) CAM for cameras connected via flat cable
Interfaces Inside	M.2 connector (Key M, 2230, 2242, 2280) RTC connector (CR2032) SDM I/F: RJ45 (following SDM v2.3), TMDS, 1 x USB (to display USB hub), UART, I2C, 3.3VSB, 12V

Resolution

EDID/DDC support	Internal SDM interface up to 3840 x 2160 @ 60Hz External Terminal: 3840 x 2160 @ 60Hz
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Electrical

Power Consumption [W]	5-10W
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Environmental conditions

Operating Temperature [°C]	0-40
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Mechanical

Net Weight (kg)	1.0
Gross Weight (kg)	1.2
Size / Gross Dimensions (m)	0.175 x 0.100 x 0.020 / 0.325 x 0.245 x 0.075

Additional features

Compatibility	All Sharp and NEC Large Format Displays accepting Intel® Smart Display Module Large
Warranty	3 years warranty, additional services available



For additional pictures and solutions overview, visit www.sharpdisplays.eu for details.