

Order Code: 100014295

OPS Single Board Computer Cortex-A53 Quad-core CPU - Leading Digital Signage to the next level

The Single Board Computer Cortex-A53 Quad-core CPU conveys fully-featured computing intelligence to all NEC Large Format Displays featuring the OPS Slot and NEC PX and PH Series installation projectors to facilitate demanding Digital Signage and Presentation.

Delivering Genuine Benefits

- **Superior performance, high efficiency** – The Quad Core CPU and the integrated Mali 450 Graphics delivers stunning performance for crisp UHD and 4K playback supporting formats such as H.264 and H.265.
- **High usage flexibility** – Thanks to wide connectivity including 2 x USB 2.0 for connection to keyboard, mouse, flash, or touch screen, SD Card Slot, Gigabit Ethernet and W-LAN for network integration.
- **Unlimited versatility** – Supporting a wide range of software applications running on Android 5.1, this open platform offers high flexibility for Digital Signage Software providers and system integrators.
- **Fan-less design** – Ensuring silent operation and increased durability and reliability.
- **Seamless and fully embedded** – Simply slotted into the display for a fully integrated solution, external mounting is obsolete.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
- **High reliability** – The use of industrial grade components and advanced heat management makes this solution ideally suited for 24/7 operation.
- **A Commitment to Quality** – Tailored warranties are available to match long-term demands through extension of the standard warranty by up to 5 years

OPS Single Board Computer Cortex-A53 Quad-core CPU is based on a Quad Core ARM processor with integrated Multi-Media Processor capable of 4K and UHD playback and ability to run third party software. It supports true 4K video playback with hardware assisted support for various video formats and was designed with display integration in mind, and can be plugged directly into any Displaying device supporting the Open Pluggable Specification (OPS). Due to the high performance level, the playback of Android based Software Applications and the wide range of connectivity options it is ideally suited for Digital Signage applications in Retail, Aviation and Transportation, Restaurants, Digital out of Home or most conventional signage uses.



OPS-DRD2-A53-2/32/A5.1/W

A simple plug in to the future

The OPS Quad Core Single Board Computer is based on a powerful 2GHz Quad Core ARM processor with integrated Multi-Media Processor and runs even the most demanding interactive, 4K UHD high resolution or resource hungry applications. The integrated 2GB memory and a 32 GB flash memory can be easily extended through USB and SD card interfaces. This open-platform solution supporting Android and Linux operating systems offers unrivalled flexibility and performance in creating customised display applications. Futureproof operation is secured with an upgrade path through its modular and exchangeable slot design. The OPS concept provides a compact and fully embedded solution ensuring that all connectors are integrated including Power, Video & Audio Signals and RS232.

Due to the high performance level and the wide range of connectivity options the OPS Single Board Computer is ideally suited for Digital Signage and Presentation applications in Retail, Aviation and Transportation, Restaurants, Digital out of Home, Corporate environments or most conventional signage uses.

Technical Specifications

Order Codes	
OPS Single Board Computer Cortex-A53 Quad-core CPU	100014295
Player Configuration	
CPU	ARM A53 CPU (AmlogicS905), Quad Core , 2.0 GHz
Graphics	Mali 450 GPU
RAM	2 GB Dual Channel DDR3-1333
Storage	32 GB NAND Flash
Data Storage extension	SD Card Slot (1 GB - 64 GB), USB 2.0
Operating System	Android Lollipop 5.1
Connectivity	
Interfaces Frontside	2 x USB 2.0 SD Card Slot (SD, SDHC) RJ45 10 / 100 / 1000 Mbps W-LAN antenna 802.11/b/g/n
Interfaces Backside	HDMI, L/R Audio, 3 x USB 2.0, UART Via Internal OPS-interface (JAE 80-pin)
Resolution & Formats	
Supported Video Resolutions	Max. resolution UHD (3840 x 2160 @ 24FPS)
Supported Video Formats	MPEG1, MPEG2, MPEG4 SP/ASP GMC, XVID, RealVideo8/9/10 H.264 BP/MP/HP, H.265 HD Avc/VC1, RM/RMVB, DivX3/4/5/6 WMV7/8, WMV9/VC1 BP/MP/AP, VP6/8, JPEG/MJPEG
Supported Audio Codecs	AC3, Dolby Digital 5.1 / 7.1, Dolby TrueHD 5.1 / 7.1, DTS-MA, DTS-HR
Electrical	
Power Consumption	Idle (2.5W), Max (12.0W)
Environmental Conditions	
Operating Temperature [°C]	0° to 40°C
Mechanical	
Net Weight [kg]	0.52
Gross Weight [kg]	0.98
Size / Gross Dimensions [mm]	200 x 119 x 30 / 280 x 194 x 105
Additional Features	
Compatibility	All NEC Large Format Displays with Option Slot (OPS or DualSlot), NEC PX and NEC PH Series Projectors
Self-Monitoring	Watch Dog Timer (WDT) to reboot upon system instability
Warranty	3 Years Warranty, Additional services available
Manufacturing Code	OPS-DRD2
Available options	
External Adapter (24/7)	OPS Standalone Adapter, Order Code: 100013143 OPS Standalone Adapter 2.0, Order code: 100014153
For additional pictures and Solutions overview, Visit www.nec-display-solutions.com for details.	

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