\Orchestrating a brighter world   **NEC**

Intel Apollo Lake 4K Single Board Computer
OPS Slot-in PCs featuring Intel® Celeron Processor
A simple plug into the future

Combining high computing performance and premium value.

The fan-less Slot-in PC featuring the latest generation Intel® Celeron® 2 x 2.4 GHz processor ("Apollo Lake") sets new standards in power efficient computing utilised for common signage applications. Supporting static and dynamic content even up to UHD playback, powerful performance for signage content is perfectly balanced with cost-efficiency. The OPS concept is the first industry-wide digital signage standard, simplifying device installation, usage and maintenance, whilst providing a fully embedded yet upgradeable solution. Delivering performance and value for many different digital signage applications, this embedded PC solution is used to power Flight Information in Airports, Media Players for Retail Signage, Menu Board play-out systems for QSR, information displays in museums and enterprises and much more.

Benefits

- **Performance plus value -** The new Intel® Celeron Dual Core Processor ("Apollo Lake") delivers reliable performance with up to 2.4 GHz in turbo clock speed

- **Ultra High Definition playback -** Intel® HD500 graphics provides 4K/60Hz resolution with remarkable video performance thanks to built-in HW decoding of H.265 (HEVC), H264, VP8, SVC und MVC

- **High usage flexibility -** thanks to wide connectivity such as 3 x USB, Gigabit Ethernet, Audio and optional WiFi and mobile web (4G/LTE)

- **Green and economical -** super low power consumption saves your wallet and the environment

- **Fan-less design -** ensuring silent operation and increased durability plus reliability even for 24/7 operation

- **Simply plug into the future -** Compatibility with open OPS Standard for Option Slot Products ensures long life cycles and safe investments

- **Seamless and fully embedded -** - since all connectors are inside the display including power, video & audio signals and RS232, no external cables are required

- **A commitment to quality -** tailored warranties available to best match long-term demands by extending standard warranty up to 5 years

OPS installed in Projector

OPS installed in Large Format Display

Technical Specifications

ORDER CODES	
OPS-Apl-s4/32/W10IoT B	100014798
OPS-Apl-s4/32/no OS B	100014795
OPS-Apl-s4/64/W10IoT B	100014801
OPS-Apl-s4/64/no OS B	100014800
OPS-Apl-s4/32/W10IoT WB	100014799
OPS-Apl-s4/32/W10IoT 4G B	100014797
PC CONFIGURATION	
CPU	Intel® Celeron N3350 2 x 1.1 GHz (Apollo Lake) base frequency, 2 x 2.4 GHz in burst frequency
RAM	4GB (DDR3L), Soldered Down DDR3L-1866 memory
Mass Storage	32GB Flash (eMMC) soldered, optional mSata SSD (MLC) different configurations available on request (Build-to-order), Shared memory for operating system. Size of pre-loaded W10IoT Enterprise distribution ~17GB
Graphics (board)	Integrated Gen9-LP Graphics controller, with 18 Execution Units 4K HW decoding and encoding of HEVC(H.265), H.264, VP8, SVC, MVC
Operating System	Windows 10 IoT LTSB x 64bit (pre-loaded), different configurations available on request (Build-to-order)
CONNECTIVITY	
Interfaces Frontside	2 x USB 2.0 1 x USB 3.0 RJ45 10 / 100 / 1000 Mbps 2 x Antenna for WIFI or 3G/LTE cellular (optional) 1 x Micro Sim Card (optional)
Interfaces backside	Internal OPS-interface to OPS Slot-in PC (JAE 80-pin connector) Internal HDMI 1.4 and DisplayPort 1.2
Audio	Analoge Stereo, Intel Display Audio over internal HDMI
RESOLUTION	
EDID/DDC support	Up to 4096 x 2160 Pixels (Automatic System Setup via DDC Support) Internal OPS interface HDMI up to 3840 x 2160 @ 30Hz Internal OPS interface DisplayPort up to 4096 x 2160 @ 60Hz (supported displays: NEC X651UHD-2/ NEC X841UHD-2/ NEC X981UHD-2)
ELECTRICAL	
Power Consumption [W]	11 Watt max 3 Watt idle mode
ENVIRONMENTAL CONDITIONS	
Operating Temperature [°C]	5-35
MECHANICAL	
Net Weight (kg)	0.8
Gross Weight (kg)	0.9
Size / Gross Dimensions (m)	0.12 x 0.03 x 0.19 / 0.19 x 0.07 x 0.26
ADDITIONAL FEATURES	
Compatibility	All NEC Large Format Displays with Option Slot (OPS or DualSlot), NEC PX and NEC PH Series Projectors
Warranty	3 Years warranty, additional services available
AVAILABLE OPTIONS	
External Adapter (24/7)	OPS Standalone Adapter, Order Code: 100013143

For additional pictures and Solutions overview,
Visit www.nec-display-solutions.com for details.