

# ARK-DS220

## ION-2-based OPS Digital Signage Player

**NEW**



### Features

- Integrated NVIDIA GT218 (ION2) graphic module for Full HD playback
- Designed compliant with OPS (Open Pluggable Standard)
- Embedded Intel® Atom™ D525 dual-core (fan-based) or Intel® Atom™ N455 single-core processor (fanless)
- Supports HDMI-CEC, DP, UART, and USB2.0 via JAE 80-pin connector
- Slot-in integration, easy maintenance
- Supports SUSIAccess and Embedded Software APIs

### Introduction

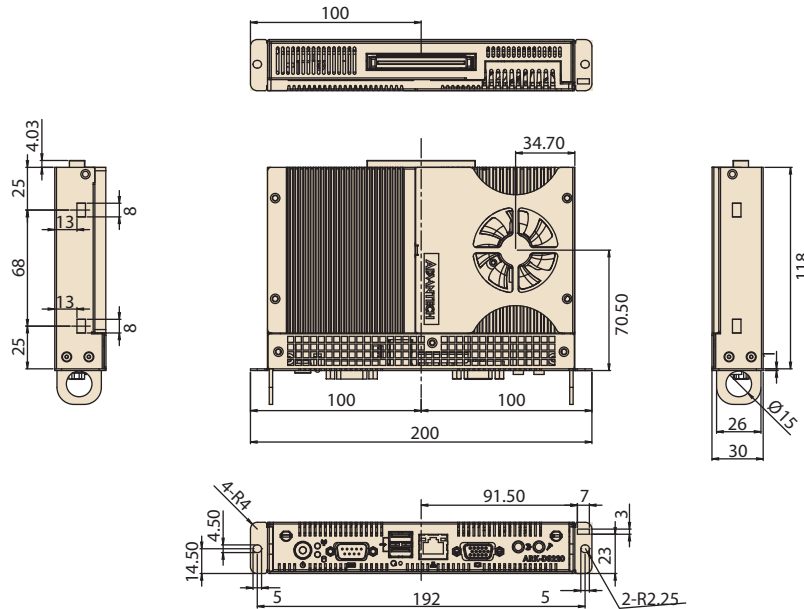
The very compact (200 x 119 x 30 mm) ARK-DS220 digital signage player compliant with Intel® OPS (Open Pluggable Specification) that helps standardize the design and development of media player and display. Development, installation, management, maintenance and upgrade are all easy. The ARK-DS220 is powered by Intel® Atom D525 dual-core (fan-based) or Intel® Atom™ N455 single-core processor (fanless) with built-in discrete NVIDIA GT218 graphic module. ARK-DS220 also supports 1x GigaLAN, 1x COM port, and 2x USB2.0, giving a great selection of data communications. The entire design makes digital signage applications more intelligent and connected.

### Specifications

Processor System	CPU	Intel Atom D525 1.8 GHz, Intel Atom N455 1.66 GHz
	System Chipset	ICH8M
	L2 Cache	1 MB/512 KB (Depends on CPU Type)
	BIOS	AMI 16 MB SPI BIOS
Memory	Technology	1 x DDR3 204-pin SO-DIMM
	Max. Capacity	Max. up to 4 GB (w/D525); or 2 GB (w/N455)
Display	Chipset	NVIDIA GT218
	Memory Size	Independent display memory 512 MB
	Resolution (Chipset support)	HDMI/DP: up to 1920 x 1080 (via OPS interconnection)
	Output	VGA x 1
Storage	SATA Interface	Supports 2.5" SATA HDD (support max 9.5 mm height only)/SSD/SATA Slim Card
Ethernet	Interface	Gigabit LAN Controller
	Controller	Intel 82567V for LAN
	Connector	1 x RJ-45
I/O Interface	JAE TX25	1
	VGA	1 (D-sub 15-pin)
	LAN	1 (RJ-45)
	USB	2 (USB 2.0 compliant)
	Audio	2 audio phone jacks for Mic-in, Line-out
	Serial	1 x COM (RS-232)
	Mini-PCIe (Internal)	1
Power Requirement	Management	ACPI 2.0
	Power Consumption Input Voltage	Average 18 W, Maximum 30 W
	Input Voltage	12 V-24 V DC-in (via OPS interconnection)
Watchdog Timer	Output	Interrupt, system reset
	Interval	255-level timer interval, setup by software
Physical Characteristics	Dimensions (W x H x D)	200 x 119 x 30 mm (OPS compliant)
	Weight	1.5 kg (3.3lb)
Environment	Temperature	0 ~ 40 °C (operating) Extended temp support up to 50° C available via SSD/SATA Slim Card (Fan-based supported)
	Relative Humidity	95% @ 40° C (non-condensing), operating
	Vibration Resistance	0.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.
Software Development Kit	Operating System	Supports Windows 7, WES7, XP Embedded, Linux
	Remote Device Management	SUSIAccess (available by ARK-DS220FQ)
	System Recovery	Acronis (available by ARK-DS220FQ)
	Anti-Virus	McAfee (available by ARK-DS220FQ)
Certification	Electromagnetic Safety	CE/FCC Class A, CCC, BSMI
		UL, CB

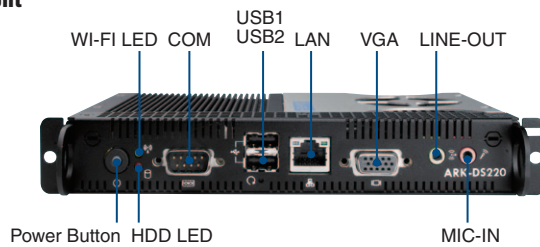
## Dimensions

Unit: mm (inch)



## Intel Atom D525 Dual-core Process (Fan-based)

### Front



### Rear



## Fanless Option with Intel Atom N455 Single-core CPU



## Ordering Information

Part Number	Description
ARK-DS220F-D6A1E	ARK-DS220, D525+GT218, 2 G RAM, 500 G HDD (Fan-based)
ARK-DS220F-N5A1E	ARK-DS220, N455+GT218, 2 G RAM, 4 G SSD (Fanless)
ARK-DS220B-D6A1E	ARK-DS220, D525+GT218 (barebone kits)
ARK-DS220B-N5A1E	ARK-DS220, N455+GT218 (barebone kits)

## Optional Items

Part Number	Description
AMO-I005E	Docking board for ARK-DS220, OPS JAE TX24/DC-In Jack/ HDMI/DP/COM/USB
AMO-WIFI03E	Centrino N100 WiFi miniPCIe for ARKD

## Embedded OS

Part Number	Description
2070010688	XPE WES2009 ARK-DS220 V4.0 ENG w/ Acronis PSNL
2070010689	XPE WES2009 ARK-DS220 V4.0 24MUI w/ Acronis
2070012271	WES7P ARK-DS220 V5.1.4 MUI10, SUSIAccess Pro
2070012430	WES7E ARK-DS220 x64 V5.6.4 EN/TC/SC/JP, SUSIAccess Pro