

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

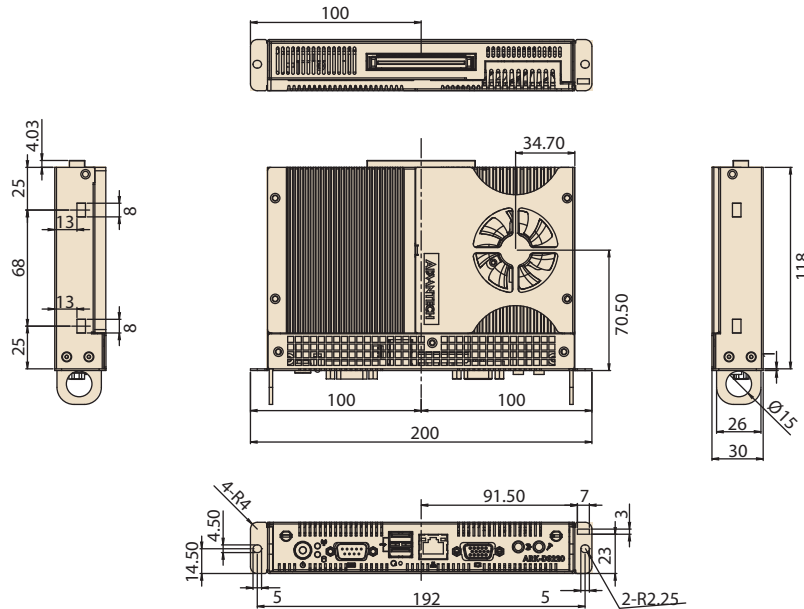
The very compact (200 x 119 x 30 mm) ARK-DS220 digital signage player compliant with Intel® OPS (Open Pluggable Specification) that helps standardize the design and development of media player and display. Development, installation, management, maintenance and upgrade are all easy. The ARK-DS220 is powered 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

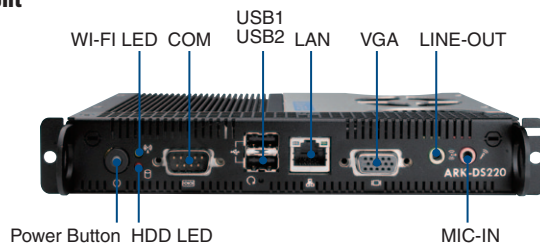
Dimensions

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