

# ARK-DS220

## OPS ION2-based Digital Signage Platform

NEW



### Features

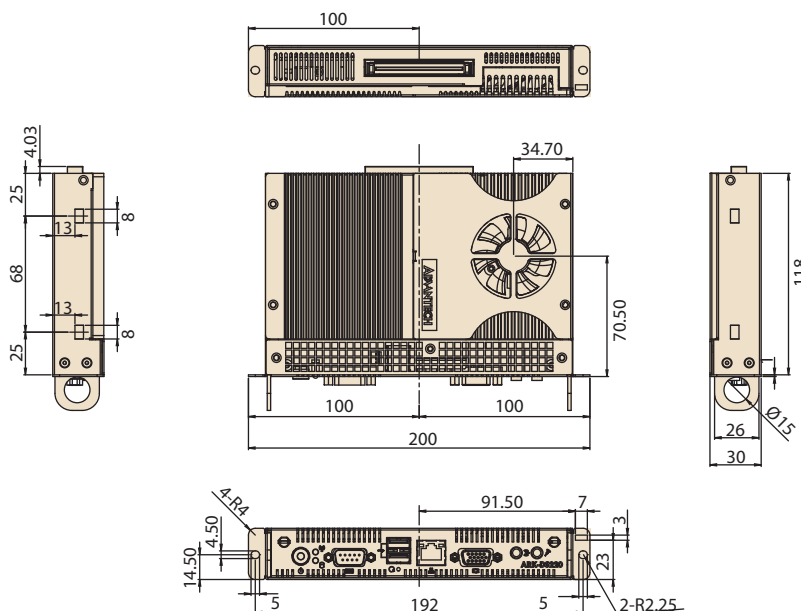
- Integrated NVIDIA GT218 (ION2) graphic module for Full HD playback
- Designed compliant with OPS (Open Pluggable Standard)
- Embedded Intel® Atom™ D525 dual-core (fan-based) or Intel® Atom™ N455 single-core processor (fanless)
- Supports HDMI-CEC, DP, UART, and USB2.0 via JAE 80-pin connector
- Slot-in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

### 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      | Average 18 W, Maximum 30 W                                                                                        |
|                          | 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)<br>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 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              | CE/FCC Class A, CCC, BSMI                                                                                         |
|                          | Safety                       | UL, CB                                                                                                            |

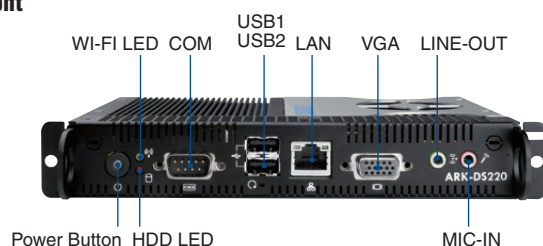
## Dimensions

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, 160 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)                                       |
| ARK-DS220FQ-D6A1E | ARK-DS220, D525+GT218, 2G RAM, 160G HDD, WES7E, SUSIAccess, McAfee, Acronis |

## 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 miniPCle 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    |
| 2070010414  | Image WES7E V5.0 ENG                           |
| 2070010415  | Image WES7P V5.0 ENG                           |
| 2070010416  | Image WES7E V5.0 JAP                           |
| 2070010417  | Image WES7E V5.0 CHS                           |
| 2070010418  | Image WES7E V5.0 CHT                           |



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