

ARK-DS220

OPS ION2-based Digital Signage Platform

NEW



Features

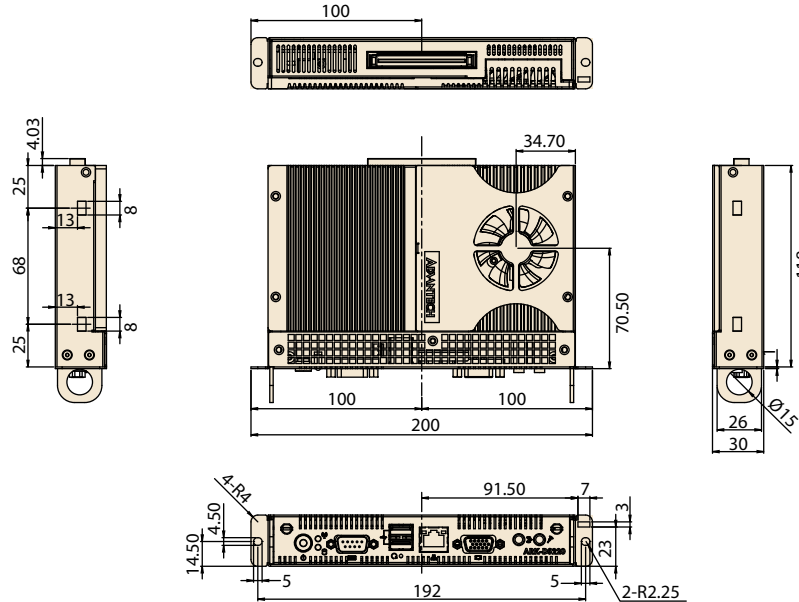
- Integrated NVIDIA GT218 (ION2) graphic module for Full HD playback
- Designed compliant with OPS (Open Pluggable Standard)
- Embedded Intel® Atom™ D525 dual-core (fan-based) or Intel® Atom™ N455 single-core processor (fanless)
- Supports HDMI, DP, UART, and USB2.0 via JAE 80-pin connector
- Slot-in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

Specifications

| | | |
|--------------------------|---------------------------------|---|
| Processor System | CPU | Intel Atom D525 1.8 GHz, Intel Atom N455 1.66 GHz |
| | System Chipset | Intel Atom D525/N455 + 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 | Support 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 | HDMI | 1 (via OPS interconnection) |
| | Display Port | 1 (via OPS interconnection) |
| | 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 118 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 Microsoft Windows 7, XP with SP3, XP Embedded, Linux |
| | EWf & WDT SDK | EWf and WDT library for signage stability design in XPE |
| Certification | Linux | Linux Fedora 14 |
| | Electromagnetic Safety | CE/FCC Class A, CCC, BSMI UL, CCC, BSMI |

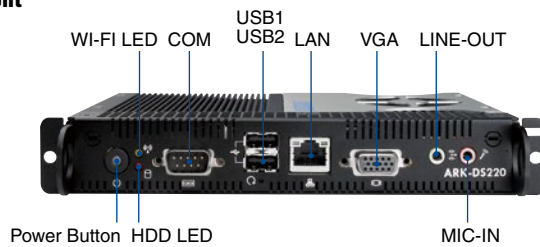
Dimensions

Unit: mm (inch)

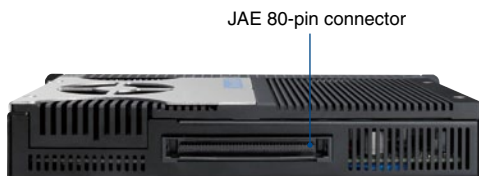


Intel Atom D525 Dual-core Process (Fan-based)

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) |

Optional Items

| Part Number | Description |
|-------------|--|
| AMO-I005E | Docking board for ARK-DS220, OPS JAE/HDMI/DP/COM/USB |

Embedded OS

| Part Number | Description |
|-------------|----------------------------------|
| 2070010688 | XPE WES2009 ARK-DS220 V4.0 ENG |
| 2070010689 | XPE WES2009 ARK-DS220 V4.0 24MUI |
| 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 |