

# ARK-1122H

Intel® Atom™ Dual Core N2600 with Independent Dual Displays Fanless Box PC

**NEW**



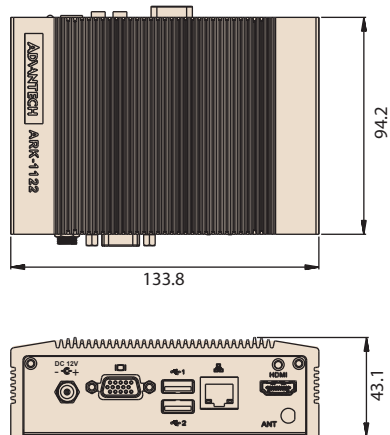
## Features

- Intel® Atom™ Dual Core N2600, 1.6 GHz
- Palm-size form factor : 133.8(W) x 43.1(H) x 94.2(D) mm
- Supports independent dual displays interfaces : VGA + HDMI
- Supports 1 x GbE and 4 USB 2.0 ports
- Supports 1 x RS-232 and Audio line in / line out
- Built-in 1 x half size Mini PCIe expansion slot (i.e.: Wi-Fi module)
- Supports mSATA and/or 2.5" SATA HDD bay
- Wide operating temperature -20 ~ 60° C support
- Optional VESA / DIN-Rail / Wall mounts
- Lockable DC jack design
- IP40 sealed design
- Supports SUSIAccess and Embedded Software APIs

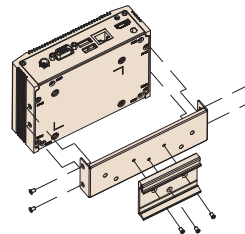
## Specifications

|                                  |                            | ARK-1122H-S6A1E  |
|----------------------------------|----------------------------|--|
| Processor System                 | CPU                        | Intel Atom Dual Core N2600 1.6 GHz   |
|                                  | L2 Cache                   | 1MB  |
|                                  | System Chipset             | Intel NM10   |
|                                  | BIOS                       | AMI EFI 16 Mbit  |
| Memory                           | Technology                 | DDR3 800 MHz up to 4 GB  |
|                                  | Socket                     | 1 x 204-pin SO-DIMM  |
| Graphics                         | Chipset                    | Intel Atom N2600   |
|                                  | Interface                  | VGA (1920 x 1200)<br>HDMI (1920 x 1200) with lockable design (please choose the lockable HDMI cable)                   |
| Ethernet                         | LAN                        | 1 x 10/100/1000 Mbps Intel 82583V GbE, supports wake on LAN  |
| Audio                            | Chipset                    | Realtek ALC892, High Definition Audio (HD)   |
|                                  | Interface                  | Line-in and Line-out   |
| I/O Interface                    | Serial Ports               | 1 x RS-232   |
|                                  | USB Interface              | 4 x USB ports, USB2.0 Compliant  |
| Other                            | Watchdog timer             | 255-level timer interval, setup by software  |
| Expansion                        | Mini PCIe                  | 1 x half-size Mini PCIe  |
| Storage                          | 2.5" HDD/SSD               | 1 x SATA II HDD Bay  |
|                                  | mSATA                      | 1 x full-size Mini PCIe slot   |
| Software Support                 | Microsoft Windows          | Windows 7 Pro, WES7, XP Embedded (XP Embedded by project support)  |
|                                  | Power Input Voltage        | 12 V <sub>DC</sub> , ± 10%   |
| Power Requirement                | DC Jack Type               | Support lockable design  |
|                                  | Power Adaptor              | AC to DC, DC12 V/3 A, 36 W with lockable design  |
| Power Consumption                | Typical                    | 6.89 W   |
|                                  | Max                        | 11.45 W  |
| Mechanical                       | Construction               | Aluminum housing   |
|                                  | Mounting                   | Support VESA/DIN Rail/Wall mounting (Optional)   |
|                                  | Dimensions (W x H x D)     | 133.8 x 43.1 x 94.2 mm (5.27" x 1.7" x 3.71")  |
| Environmental and Certifications | Operating Temperature      | With standard temperature HDD/SSD/mSATA devices: 0 ~ 40° C<br>With extended temperature SSD/mSATA devices: -20 ~ 60° C |
|                                  | Storage Temperature        | -40 ~ 85° C  |
|                                  | Relative Humidity          | 95% @ 40° C (non-condensing)   |
|                                  | Vibration During Operation | With SSD/mSATA: 3Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1hr/axis  |
|                                  | Shock During Operation     | With SSD/mSATA: 30Grms, IEC 60068-2-27, half sine, 11ms duration   |
|                                  | EMC                        | CE/FCC Class A, CCC, BSMI  |
|                                  | Safety Certifications      | CB, UL, CCC, BSMI  |

## Dimensions

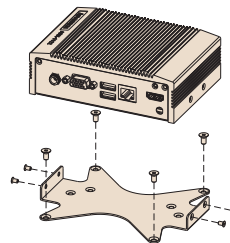


### DIN Rail

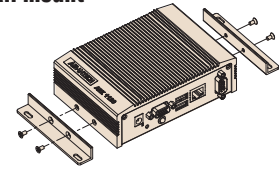


Unit: mm

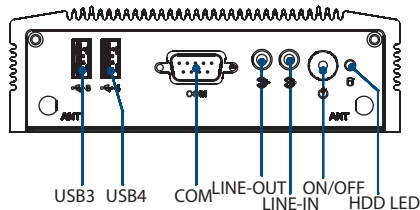
### VESA mount



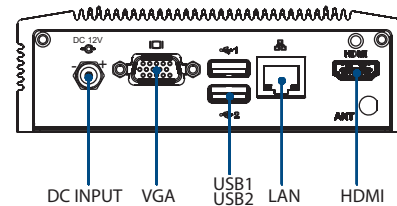
### Wall mount



## Front Panel External I/O Mechanical Layout/Drawing



## Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

| Part Number      | Intel CPU         | RAM          | VGA | HDMI | Audio               | GbE | 2.5" HDD bay       | mSATA Storage | USB 2.0 | RS-232 | RS-232/422/485 | MiniPCIe    | Operating Temp. | OS            |
|------------------|-------------------|--------------|-----|------|---------------------|-----|--------------------|---------------|---------|--------|----------------|-------------|-----------------|---------------|
| ARK-1122H-S6A1E  | Atom N2600 1.6GHz | Up to 4GB    | 1   | 1    | Line in<br>Line out | 1   | 1                  | 1             | 4       | 1      | N/A            | 1 Half size | -20 ~ 60° C     | -             |
| ARK-1122HS-S6A1E | Atom N2600 1.6GHz | 2GB Built in | 1   | 1    | Line in<br>Line out | 1   | 500GB HDD built in | 1             | 4       | 1      | N/A            | 1 Half size | 0 ~ 40° C       | WES7 Built-in |

Note: Memory, storage and operating system bundled by request.

## Packing List

| Part Number      | Description                                     |
|------------------|---|
| -                | 1 x ARK-1122 unit                               |
| -                | 1 x Driver/Utility CD/Manual                    |
| -                | 1 x Traditional Chinese user manual for CCC     |
| -                | 1 x China RoHS                                  |
| 96PSA-A36W12W6-1 | 1 x AC to DC adapter DC 12V/3A 36W, -20 ~ 60° C |

## Embedded OS (Only available for T-Parts OEM, and CTOS service)

| Part Number | Description                    |
|-------------|--------------------------------|
| 2070011879  | WES7 for ARK-1122H & ARK-1122F |

## Optional Items

| Part Number   | Description   |
|---------------|---|
| 1700001524    | Power Cable 3-pin 180cm, USA type (For power adapter 96PSA-A36W12W6-1)    |
| 170203183C    | Power Cable 3-pin 180cm, Europe type (For power adapter 96PSA-A36W12W6-1) |
| 170203180A    | Power Cable 3-pin 180cm, UK type (For power adapter 96PSA-A36W12W6-1)     |
| 1700008921    | Power Cable 3-pin PSE Mark 183cm (For power adapter 96PSA-A36W12W6-1)     |
| 1757004522-01 | AC-to-DC Wide Temperature Adapter, DC 12V/3.33A 40W, -20° C ~ 70° C       |
| 1702002600-01 | Power cable 3-pin 183 cm, USA type (For power adapter 1757004522-01)      |
| 1700018705    | Power cable 3-pin 183 cm, Europe type (For power adapter 1757004522-01)   |
| 1700018704    | Power cable 3-pin 183 cm, UK type (For power adapter 1757004522-01)       |
| 1700000237-01 | Power cable 3-pin 183 cm, PSE type (For power adapter 1757004522-01)      |
| AMK-V003E     | ARK-112X series VESA mounting kit   |
| AMK-R001E     | ARK-112X series DIN-rail mounting kit                                     |
| AMK-W001E     | ARK-112X series Wall mounting kit   |
| 1700023855-01 | 1M lockable HDMI cable  |
| 1700023856-01 | 3M lockable HDMI cable  |