

# ARK-1122F

## Intel® Atom™ Dual Core N2800 with Diverse Communications Fanless Box PC

NEW



SUSIAccess



CE FCC



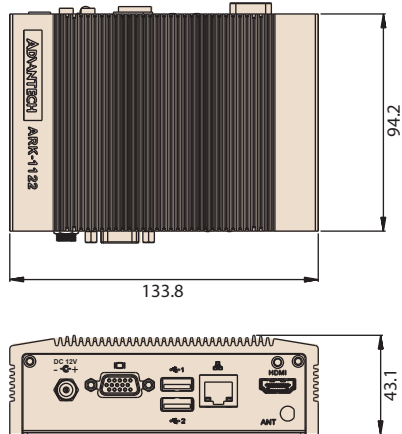
### Features

- Intel® Atom™ Dual Core N2800, 1.86 GHz
- Palm-size form factor : 133.8(W) x 43.1(H) x 94.2(D) mm
- Supports 2 x Intel GbE
- Built-in 2 x Mini PCIe slots for Wi-Fi/3G communications (1 w/ SIM)
- Supports independent dual displays interfaces : VGA + HDMI
- Supports 1 x RS-232, Audio line in / line out and 3 USB 2.0 ports
- Supports mSATA storage
- 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

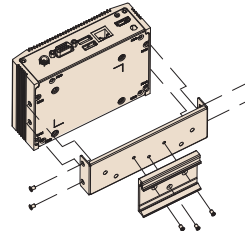
| ARK-1122F-S8A1E                  |                            |                                                                                                            |
|----------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------|
| Processor System                 | CPU                        | Intel Atom Dual Core N2800 1.86 GHz                                                                        |
|                                  | L2 Cache                   | 1MB                                                                                                        |
|                                  | System Chipset             | Intel NM10                                                                                                 |
|                                  | BIOS                       | AMI EFI 16 Mbit                                                                                            |
| Memory                           | Technology                 | DDR3 1066 MHz up to 4 GB                                                                                   |
|                                  | Socket                     | 1 x 204-pin SO-DIMM                                                                                        |
| Graphics                         | Chipset                    | Intel Atom N2800                                                                                           |
|                                  | Interface                  | VGA (1920 x 1200)<br>HDMI (1920 x 1200) with lockable design (please choose the lockable HDMI cable)       |
| Ethernet                         | LAN                        | 2 x 10/100/1000 Mbps Intel 82583V GbE                                                                      |
| 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              | 3 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<br>1 x full-size Mini PCIe w/SIM Holder                                            |
| Storage                          | mSATA                      | 1 x full-size Mini PCIe slot (Suggest to assembly by CTOS or T-Part due to complex installation)           |
| Software Support                 | Microsoft Windows          | Windows 7 Pro, WES7, XP Embedded (XP Embedded by project support)                                          |
| Power Requirement                | Power Input Voltage        | 12 V <sub>DC</sub> , ± 10%                                                                                 |
|                                  | DC Jack Type               | Support lockable design                                                                                    |
|                                  | Power Adaptor              | AC to DC, DC12 V/3 A, 36 W with lockable design                                                            |
| Power Consumption                | Typical                    | 7.84 W                                                                                                     |
|                                  | Max.                       | 13.15 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 mSATA devices: 0 ~ 40° C<br>With extended temperature mSATA devices: -20 ~ 60° C |
|                                  | Storage Temperature        | -40 ~ 85° C                                                                                                |
|                                  | Relative Humidity          | 95% @ 40° C (non-condensing)                                                                               |
|                                  | Vibration During Operation | With mSATA: 3Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1hr/axis                                            |
|                                  | Shock During Operation     | With mSATA: 30Grms, IEC 60068-2-27, half sine, 11ms duration                                               |
|                                  | EMC                        | CE/FCC Class A, CCC, BSMI                                                                                  |
|                                  | Safety Certifications      | CB, UL, CCC, BSMI                                                                                          |

## Dimensions

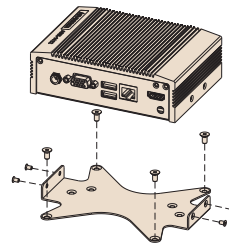


### DIN Rail

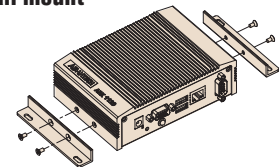
Unit: mm



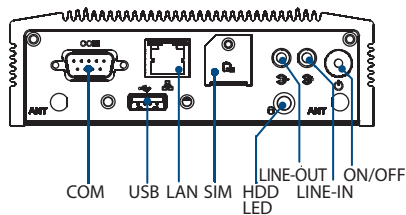
### VESA mount



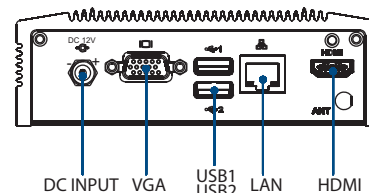
### Wall mount



## 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. |
|-----------------|-------------------|-----------|-----|------|-------------------|-----|--------------|---------------|---------|--------|----------------|---------------------------------|-----------------|
| ARK-1122F-S8A1E | Atom N2800 1.8GHz | Up to 4GB | 1   | 1    | Line in, Line out | 2   | N/A          | 1             | 3       | 1      | N/A            | 1 Half size, 1 Full size w/ SIM | -20 ~ 60° C     |

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                                                       |
| 1757004096-01 | 1 x AC to DC adapter DC12 V/3 A 36 W, 0 ~ 40° C with lockable design |
| 9680015085    | 1 x L type Wrench 18x51mm for SIM cover                              |

## 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 1757004096-01)     |
| 170203183C    | Power Cable 3-pin 180cm, Europe type (For power adapter 1757004096-01)  |
| 170203180A    | Power Cable 3-pin 180cm, UK type (For power adapter 1757004096-01)      |
| 1700008921    | Power Cable 3-pin PSE Mark 183cm (For power adapter 1757004096-01)      |
| 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                                       |



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