

# ARK-1122F

## Palm-size and Diversity Communications Intel® Atom™ N2800 Low Power Fanless Embedded Box PC

**NEW**



### Features

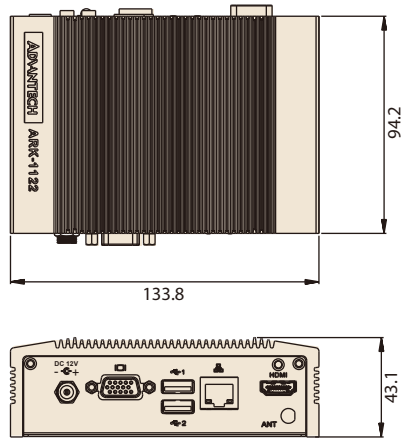
- Sealed construction with fanless design with Intel® Atom™ N2800, 1.86 GHz
- Palm-size form factor : 134 x 94 x 43 mm
- Supports 2 x GbE LAN
- Built-in 2 x Mini PCIe slots for WiFi/3G communications (1 slot w/SIM holder)
- Supports independent dual displays interfaces : VGA + HDMI
- Supports 1 x RS-232, 1 x 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
- Optional SUSIAccess and embedded software API



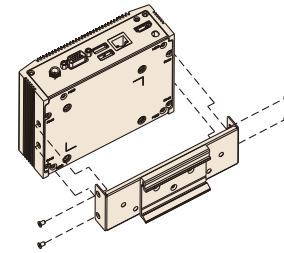
### Specifications

ARK-1122F-S8A1E		
Processor System	CPU	Intel Atom DC N2800 1.86 GHz
	System Chipset	Intel NM10
	BIOS	AMI EFI 16 Mbit
Memory	Technology	DDR3 1066 MHz (N2800), up to 4 GB
	Socket	1 x 204-pin SO-DIMM
Graphics	Chipset	Intel Atom N2800
	Interface	VGA + HDMI (1920 x 1200)
Ethernet	LAN	2 x GbE Intel 82583V 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	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 1 x full-size Mini PCIe w/SIM Holder
	Storage	2.5" HDD/SSD mSATA
Software Support	Microsoft Windows	Windows 7 Pro, WES7, XP Embedded
Power Requirement	Power Type	Single 12 V <sub>DC</sub> power input (Supports lockable DC Jack design)
	Power Input Voltage	Supports single 12 V input, ± 10%
	Power Adaptor	AC to DC, DC12 V/3 A, 36 W
Mechanical	Construction	Aluminum housing
	Mounting	Desk/Wall-mounting; VESA mounting
	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 With extended temperature SSD/mSATA devices: -20 ~ 60° C
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
	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

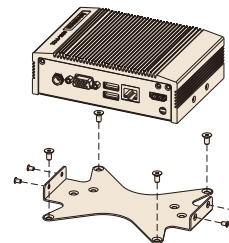


### DIN Rail

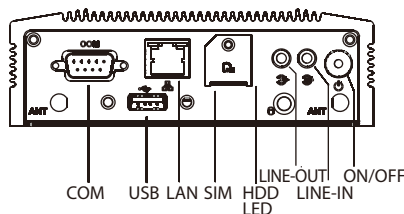


Unit: mm (inch)

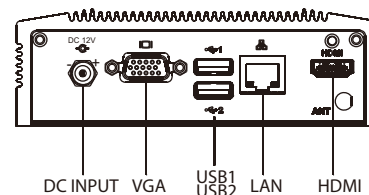
### VESA mount



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



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



## ARK-1122 Product Ordering Information



### ARK-1122F-S8A1E

- Intel Atom N2800 1.8GHz w/HDMI+3USB+2LAN

### ARK-1122FS-S8A1E

- 2G RAM+16G mSATA+WES7+SUSIAccess Pro



### ARK-1122H-S6A1E

- Intel Atom N2600 1.6GHz w/HDMI+VGA+LAN

### ARK-1122HS-S6A1E

- 2G RAM+320G HDD+WES7+SUSIAccess Pro



### ARK-1122C-S6A1E

- Intel Atom N2600 1.6GHz w/4COM+4USB+LAN

## 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 for Home and Office use

## Embedded OS

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

Part Number	Description
2070011879	WES7 for ARK-1122H & ARK-1122F
2070011881	WES7 for ARK-1122C
2070011882	WES2009 for ARK-1122H & ARK-1122F
2070011880	WES2009 for ARK-1122C

## Optional Items

Part Number	Description
1700001524	Power Cable 3-pin 180cm, USA type
170203183C	Power Cable 3-pin 180cm, Europe type
170203180A	Power Cable 3-pin 180cm, UK type
1700008921	Power Cable 3-pin PSE Mark 183cm
1960052227N001	ARK-1120 VESA/Desk mount bracket
9666112000E	DIN Rail mounting kits for ARK-112X series