

ARK-1122F

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

NEW



Features

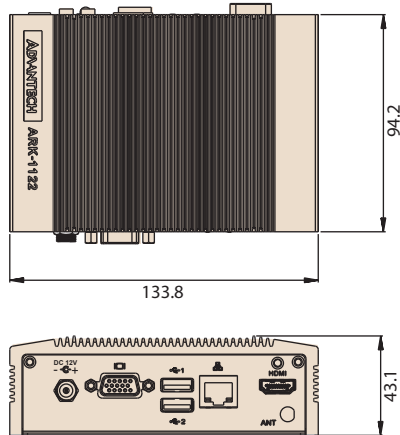
- Intel® Atom™ Dual Core N2800, 1.86 GHz
- Palm-size form factor : 133.8(W) x 43.1(H) x 94.2(D) mm
- Supports 2 x Intel GbE
- Built-in 2 x Mini PCIe slots for Wi-Fi/3G communications (1 w/ SIM)
- Supports independent dual displays interfaces : VGA + HDMI
- Supports 1 x RS-232, Audio line in / line out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



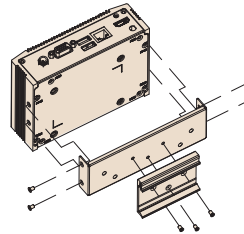
Specifications

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) 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 supports WIFI only 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 32bit, WES7 32bit,, XP Embedded (XP Embedded by project support)
Power Requirement	Power Input Voltage	12 V _{DC} , ± 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 HDD/SSD/mSATA devices: 0 ~ 40° C with 0.7 m/s air flow With extended temperature SSD/mSATA devices: -20 ~ 60° C with 0.7 m/s air flow
	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

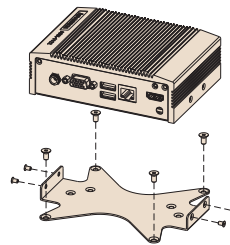


DIN Rail

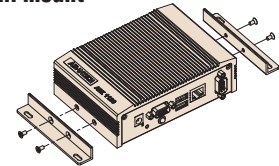


Unit: mm

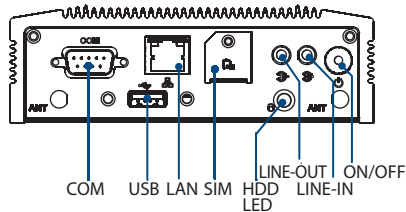
VESA mount



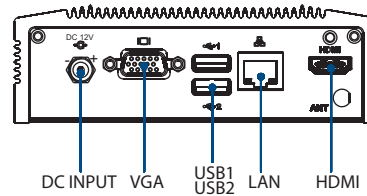
Wall mount



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
96PSA-A36W12W7	1 x AC to DC adapter DC 12V/3A 36W, -20 ~ 60° C
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	WESTE 32bit for ARK-1122H & ARK-1122F

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
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