



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ARK-1122F

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

NEW



Features

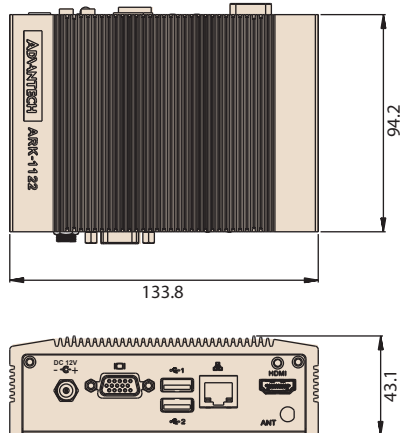
- Intel® Atom™ Dual Core N2800, 1.86 GHz
- Palm-size form factor : 133.8(W) x 43.1(H) x 94.2(D) mm
- Supports 2 x Intel GbE
- Built-in 2 x Mini PCIe slots for Wi-Fi/3G communications (1 w/ SIM)
- Supports independent dual displays interfaces : VGA + HDMI
- Supports 1 x RS-232, Audio line in / line out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



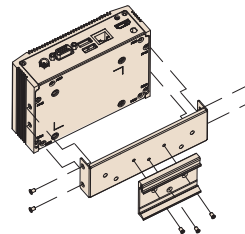
Specifications

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

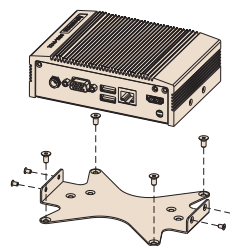


DIN Rail

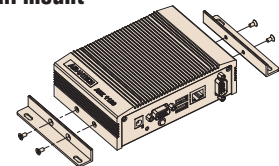


Unit: mm

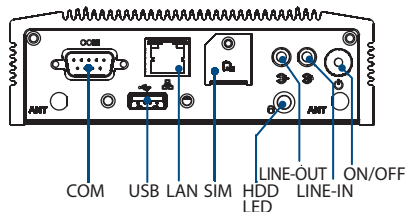
VESA mount



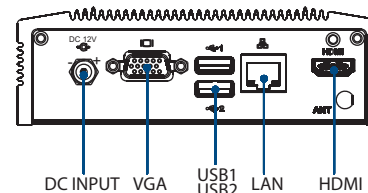
Wall mount



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