

ARK-1120

Ultra Slim and Price Competitive Intel® Atom™ N455 Fanless Embedded Box PC

NEW



Features

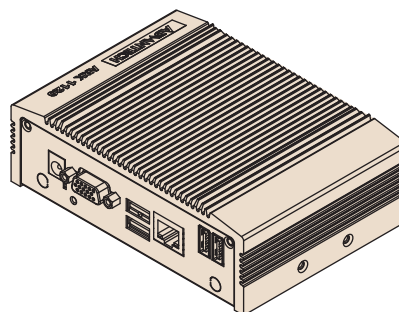
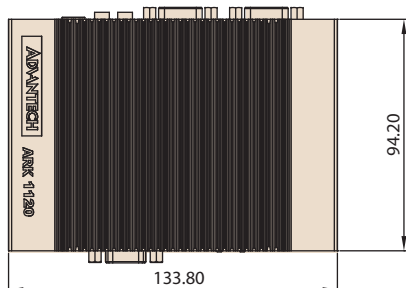
- Intel® Atom™ processor N455 1.66 GHz + ICH8M, DDR3 memory support
- Palm-size design: 133.8 x 43.1 x 94.2 mm
- Supports 2.5" SATA HDD
- Low-power-consumption, total power consumption < 10W
- One half mini-PCIe socket expansion
- Supports SUSIAccess and Embedded Software APIs
- Fanless construction with VESA mount, IP40



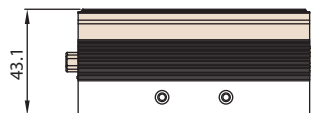
Specifications

		ARK-1120L-N5A1E	ARK-1120F-N5A1E
Processor System	CPU	Intel Atom processor N455 1.66 GHz	
	Max. Speed	1.66 GHz	
	System Chipset	Intel ICH8-M	
	BIOS	AMI 16 Mbit Flash BIOS	
Memory	Technology	DDR3 up to 667 MHz	
	Max. Capacity	2 GB	
	Socket	1 x 204 pin SO-DIMM	
Graphics	Chipset	Intel ICH8-M	
	Interface	CRT interface, up to 1400 x 1050 (SXGA)	
Ethernet	LAN	1 x 10/100/1000 Mbps Intel 82567V Ethernet controller, Support Wake on LAN	
	Interface	Line-out, Line-in	N/A
I/O Interface	Serial Ports	2 x RS-232	2 x RS-232, 2 x RS-232/422/485 (by BIOS setting)
	USB Interface	4 x USB ports, USB 2.0 Compliant	2 x USB ports, USB 2.0 Compliant
Other	Watchdog timer	255-level timer interval, setup by software	
Expansion	Mini PCIe	1 x half-size Mini PCIe	
Storage	HDD	Support one drive bay space for SATA 2.5" HDD (support 9.5mm height only)	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk (only available for T-Parts and CTOS service)	
Software Support	Microsoft Windows	Windows 7, XP Professional, XP Embedded, WinCE 6.0	
	Linux	Ubuntu	
Power Requirement	Power Type	ATX	
	Power Input Voltage	12 V _{DC}	
	Minimum Power Input	12 V, 1.5 A	
	Power Adaptor	AC to DC, DC12 V/3 A, 36 W	
Power Consumption	Typical	9.12 W	
	Max	10.80 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 1.70" x 3.71")	
	Weight	0.7 kg (1.55 lb)	
Environmental and Certifications	Operating Temperature	0 ~ 40° C (32 ~ 104° F) with 0.7m/s air flow and extend temperature HDD	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration During Operation	With CompactFlash disk: 3Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1hr/axis.	
	Shock During Operation	With CompactFlash disk: 30Grms, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class A, CCC, BSMI	
Safety Certifications	UL, CCC, BSMI		

Dimensions

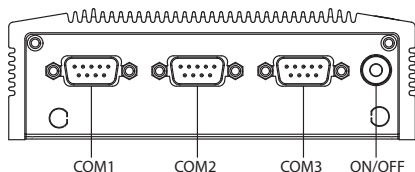


Unit: mm (inch)

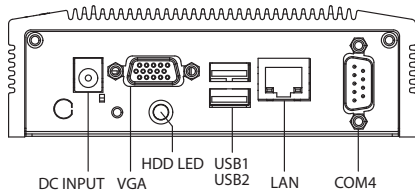


ARK-1120F

Front Panel External I/O Mechanical Layout/Drawing

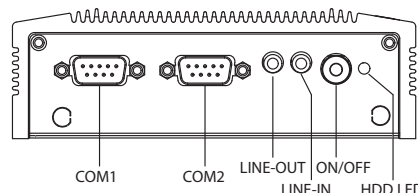


Rear Panel External I/O Mechanical Layout/Drawing

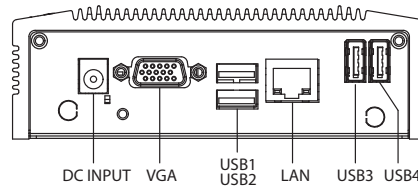


ARK-1120L

Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	Memory (SO-DIMM)	VGA	GbE LAN	Audio	2.5" SATAII	CF Card	USB2.0	RS-232	RS-232/422/485	Half-Size Mini PCIe	Operating Temperature
ARK-1120L-N5A1E	Intel Atom N455 1.66 GHz	1	1	1	Line-in Line-out	1	1	4	2	No	1	0-40° C
ARK-1120F-N5A1E	Intel Atom N455 1.66 GHz	1	1	1	No	1	1	2	2	2	1	0-40° C

Packing List

Part Number	Description
-	1 x ARK-1120 unit
-	1 x Driver/Utility CD/manual
-	1 x Traditional chinese user manual for CCC
-	1 x China RoHS
1960047289T001	DC power adapter locker
1757003553	AC-to-DC Adapter DC12 V/3 A 36 W, with DC-Jack, 0 - 40° C for Home and Office Use

Optional Items

Part Number	Description
1700001524	Power Cable 3-pin 180 cm, USA type
170203183C	Power Cable 3-pin 180 cm, Europe Type
170203180A	Power Cable 3-pin 180 cm, UK Type
1700008921	Power Cable 3-pin PSE Mark 183cm
1960052227N001	ARK-1120 VESA/Desk mount bracket

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

Part Number	Description
2070010313	XPE WES2009 V4.0 ENG
2070010314	XPE WES2009 V4.0 24MUL
2070010919	WES7E SP1 V5.1 ENG