

ARK-1120

Ultra Compact and Cost Effective Intel® Atom N455 Embedded IPC



Features

- Fanless, ultra compact embedded box IPC
- Built-in Intel® Atom™ processor N455 1.66 GHz
- Low power consumption solution
- One half mini-PCIe socket expansion for wireless application
- Ultra compact size, VESA mounted, robust construction with fanless operation
- IP40

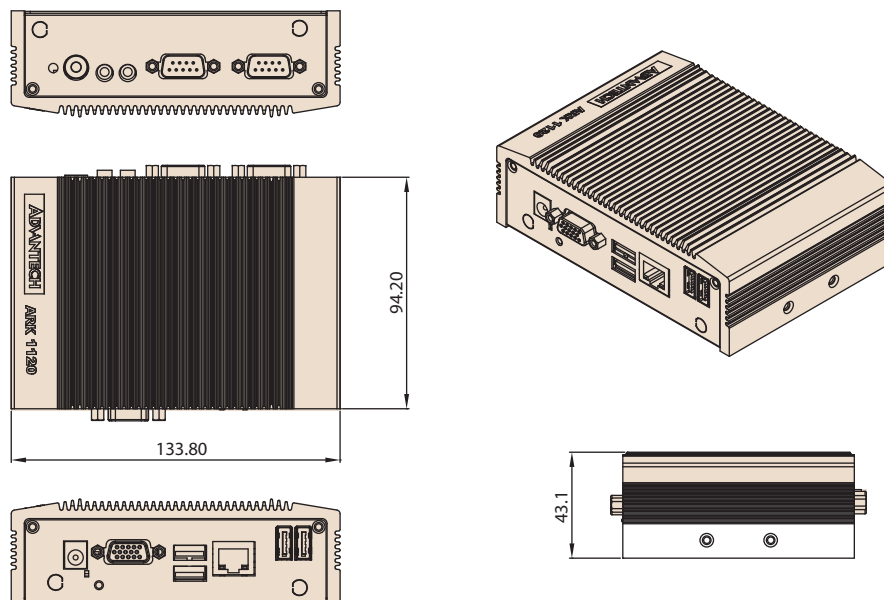


Specifications

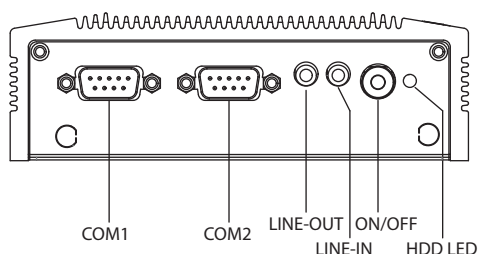
Processor System	CPU	Intel® Atom™ processor N455 1.66 GHz
	Max. Speed	1.66 GHz
	System Chipset	Intel ICH8-M chipset
	BIOS	16 Mb SPI BIOS
Memory	Technology	DDR3 800 MHz
	Max. Capacity	2 GB
	Socket	1 x 204-pin SODIMM
Graphics	Chipset	Intel® ICH8-M
	Interface	CRT interface
Ethernet	LAN	1 x 10/100/1000 Base-T Intel 82567V Ethernet controller, Support Wake on LAN
	Interface	Line-out, Line-in
I/O Interface	Serial Ports	2 x RS-232
	USB Interface	4 x USB ports, USB 2.0 Compliant
Others	Watchdog timer	255 levels 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
Software Support	Microsoft Windows	Windows 7, XP Professional, XP Embedded, WinCE 6.0, Linux
	Power Type	ATX
	Power Input Voltage	12 V _{DC}
	Minimum Power Input	-
Power Requirement	Power Adaptor	AC to DC, DC12 V/3 A, 36 W
	Typical	-
Power Consumption	Max	-
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)
Environment	Operating Temperature	0 ~ 40° C (-32 ~ 104° F) with air 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, 1 Oct./min, 1hr/axis.
	Shock During Operation	With CompactFlash disk: 20Grms, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A, CCC, BSMI
Safety Certifications		UL, CCC, BSMI

Dimensions

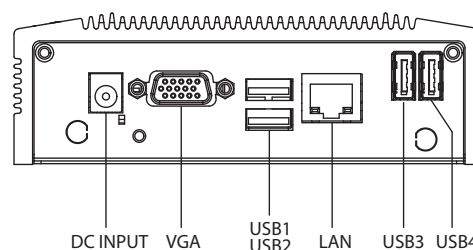
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



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

Ordering Information

Part Number	Description
ARK-1120L-N5A1E	Intel Atom N455 1.66GHz w/2 COM + 4 USB + 1 LAN + Audio

Optional Items

Part Number	Description
1757003553	AC-to-DC Adapter DC12 V/3 A 36 W, with DC-Jack, 0 ~ 40° C for Home and Office Use
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

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

Part Number	Description
TBD	