

ARK-1124C

Intel Atom™ N3350 DC SoC With Four Serial Ports Modular Fanless Box PC

NEW



* Dual Layer Model is ARK-1124 with optional AMO-1101 and iDoor.



WISE-PaaS/RMM



Features

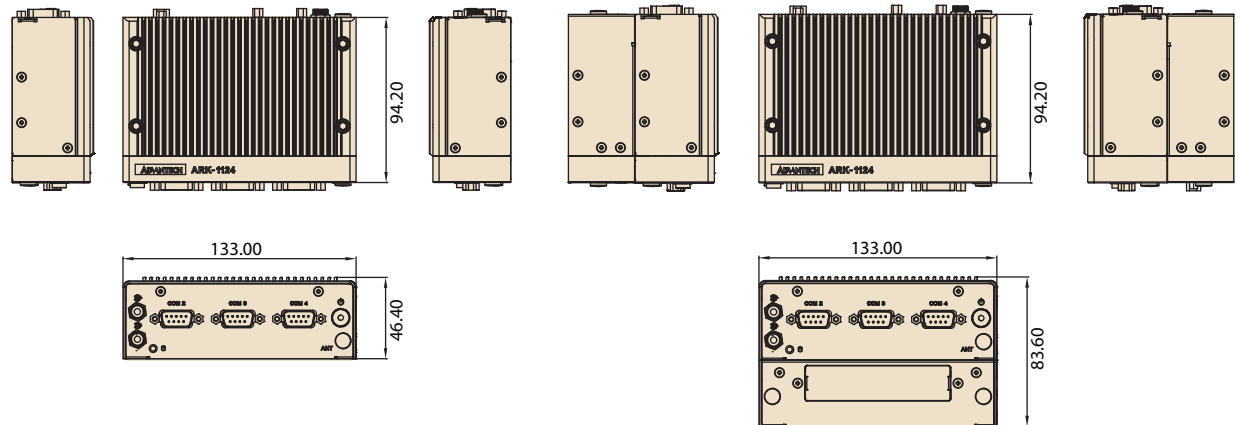
- Intel Atom N3350 Dual Core SoC
- VGA Display, 4 x RS-232/422/485, 2 x USB3.0
- 1 x full-size miniPCIe for communication module
- 1 x 2.5" SATA III SSD/HDD and 1 x mSATA
- -20 ~ 60 °C extended operating temperature
- 12V lockable DC jack power input
- 12-24V power module compatible with all-in-one ordering
- Advantech iDoor module compatible (Dual Layer)
- Advantech WISE-PaaS/RMM support

Specifications

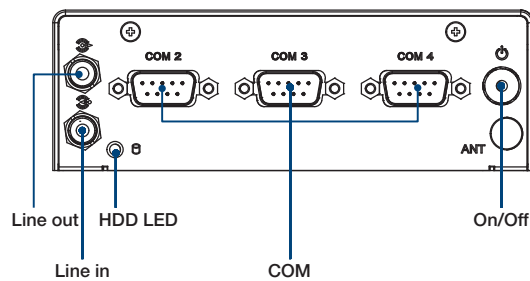
		ARK-1124C-S1A1E
Processor System	CPU	Intel® Celeron® N3350 Dual Core SoC
	Frequency	1.1 GHz, turbo burst 2.4 GHz
	L2 Cache	2 MB
	BIOS	AMI EFI 64 bit
Memory	Technology	DDR3L 1866 MHz
	Max. Capacity	8 GB
	Socket	1 x 204-pin SO-DIMM
Graphics	Chipset	Intel® HD Graphics 500
	Graphic Engine	4K Codec Decode & Encode for H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG
	VGA	Up to 2048 x 1280 @ 60Hz
Ethernet	LAN1	10/100/1000 Mbps Intel i210 GbE, support Wake On Lan
Audio	Interface	Realtek ALC888S, High Definition Audio. Line-out, Line-in
IO Interface	Serial Ports	4 x RS-232/422/485 port with auto flow control
	USB Interface	2 x USB 3.0
Other	Watchdog timer	255 levels timer interval, setup by software
Expansion	Mini PCIe	1 x full-size mPCIe for WLAN/WWAN
Storage	2.5" Drive Bay	Supports 1 x 2.5" SATA III HDD/SSD (Compatible with 9.5mm height HDD)
	mSATA	1x Half-size mSATA (Suggest to assembly by CTOS or T-Part due to complex installation)
Software Support	Microsoft Windows	Windows 10 Enterprise, Windows 10 IoT Core
	Linux	Support by project
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12V _{DC} (Optional 12-24V power module, by AMO-P011)
	Minimum Power Input	12 V, 3 A
Power Consumption	Power Adapter	AC to DC, DC12 V/3 A, 36 W with lockable DC Jack
	Typical	5.5W
	Max.	18.8W
Mechanical	Construction	Aluminum housing
	Mounting	DIN-Rail/Wall/VESA Mounting Kits (Optional)
	Dimensions (W x H x D)	133 x 46.4 x 94.2mm (5.24" x 1.83" x 3.71")
	Weight	0.7 Kg (1.55lb)
Environment	Operating Temperature	With extended temperature peripherals: -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s air flow With 2.5-inch hard disk 0 ~ 40 °C (32 ~ 104 °F) with 0.7m/s air flow
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
	Relative Humidity	95% @ 40 °C (non-condensing)
	Vibration During Operation	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock During Operation	With SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class B, CCC, BSMI
	Safety Certifications	UL, CB, CCC, BSMI

Dimensions

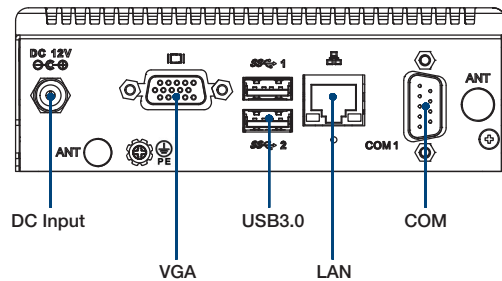
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	RAM	VGA	GbE	USB 3.0	RS-232/422/485	Audio	Full-size MiniPCIe	mSATA	2.5" SATA III HDD Bay	Power Input	Operating Temp.
ARK-1124C-S1A1E	Intel Atom N3350 1.1 GHz SoC	Up to 8GB	1	1	2	4	Lin-out, Line-in	1	1 (H/S)	1	12 V _{DC}	-20 ~ 60 °C

Note: Memory, storage and operating system bundled by request.

Packing List

Part Number	Description
-	1 x ARK-1124C Unit
-	1 x User Manual (Simplified Chinese)
96PSA-A36W12W7	A/D 100-240V 36W 12V C6 LOCKABLE DC PLUG

Optional Embedded OS

Part Number	Description
2070015307	Win10 IoT Ent LTSB 2016 64bit ENG

Optional Item for Default SKU

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
AMK-W001E	ARK-112X series Wall mounting kit
AMK-V003E	ARK-112X series VESA mounting kit
AMK-R001E	ARK-112X series DIN-rail mounting kit

ARK Plus Extended Modules

AMO-1101 iDoor module kit



Specifications

General

Features	For iDoor and power module expansion
Contents	Mechanical kit for iDoor module
Dimension	133 x 37 x 94.2 mm
Operating temperature	-20~ 60°C

Ordering Information

P/N	Description
AMO-1101	ARK-1124 ARK Plus kit for 2nd layer expansion

* AMO-1101 support iDoor module x1 (by CTOS). iDoor module is optional, please select optional module when ordering

* AMO-1101 support iDoor module x1 and 12-24V power module x1 (by CTOS)

ARK-1124 Dual Layer Expansion Option Items

Optional iDoor Expansion

Part Number	Description
MOS-2230-Z1201E	CANBus module, 2-Ch, USB Interface
MOS-2220-X1101E	Parallel LPT module, 1-Ch, USB Interface
MOS-2110Z-1201E	USB module, 2-Ch, PCIe Interface
MOS-2120-Z1101E	Giga LAN Ethernet module, 1-Ch, PCIe Interface
MOS-1120Y-0201E	Isolated RS-232, 2-Ch, DB9, PCIe Interface
MOS-1121Y-0201E	Isolated RS-422/485, 2-Ch, DB9, PCIe Interface
MOS-1120Y-1401E	Non-Isolated RS-232, DB37, 4-Ch, PCIe Interface
MOS-1121Y-1401E	Non-Isolated RS-422/485, DB37, 4-Ch, PCIe Interface
MOS-1130Y-0201E	Isolated CANBus, 2-Ch, DB9, PCIe Interface
MOS-1110Y-0101E	Isolated 16 DI/8 DO, 1-Ch, DB37, PCIe Interface
MOS-2220-Z1101E	High Speed COM module, 1-Ch, USB Interface

Optional 12-24V DC Power module

Part Number	Description
AMO-P011	12-24V DC input power module