

ARK-1124C A3

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



Features

- Intel® Celeron™ N3350 Dual Core SoC
- VGA Display, 4 x RS-232/422/485, 2 x USB3.0
- 1 x full-size miniPCle for communication module #1
- 1 x 2.5" SATA III drive bay and 1 x half-size mSATA
- -20 ~ 60 °C extended operating temperature
- 12V lockable DC jack power input
- Optional 12~24V power module (Dual Layer)
- Advantech iDoor module compatible (Dual Layer)
- Advantech WISE-DeviceOn support



WISE-DeviceOn



Specifications

ARK-1124C-S1A3		
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	LAN	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 #1
	iDoor	1, optional (2nd layer)
Storage	SSD/HDD	Supports 1 x 2.5" SATA III Drive Bay (Compatible with 9.5mm height)
	mSATA	1x Half-size mSATA (by CTOS or T-PN)
Software Support	Microsoft Windows	Win 10 IoT Enterprise LTSC
	Linux	Support by project
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12V _{DC} (Optional 12~24V power module)
	Minimum Power Input	12 V, 3 A
	Power Adapter	AC to DC, DC12 V/3 A, 36 W with lockable DC Jack
Power Consumption	Typical	5.5W
	Max.	10.2W
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
	Storage Temperature	With 2.5-inch hard disk 0 ~ 40 °C (32 ~ 104 °F) with 0.7m/s air flow
	Relative Humidity	-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. With HDD: 0.5Grms, IEC 60068-2-64, random, 5~500Hz, 1hr/axis
	Shock During Operation	With SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class B, CCC, BSMI
Safety Certifications		UL, CB, CCC, BSMI

#1 mPCIe slot is hardware interface for wireless communication integration only. System level RF certification is not available.

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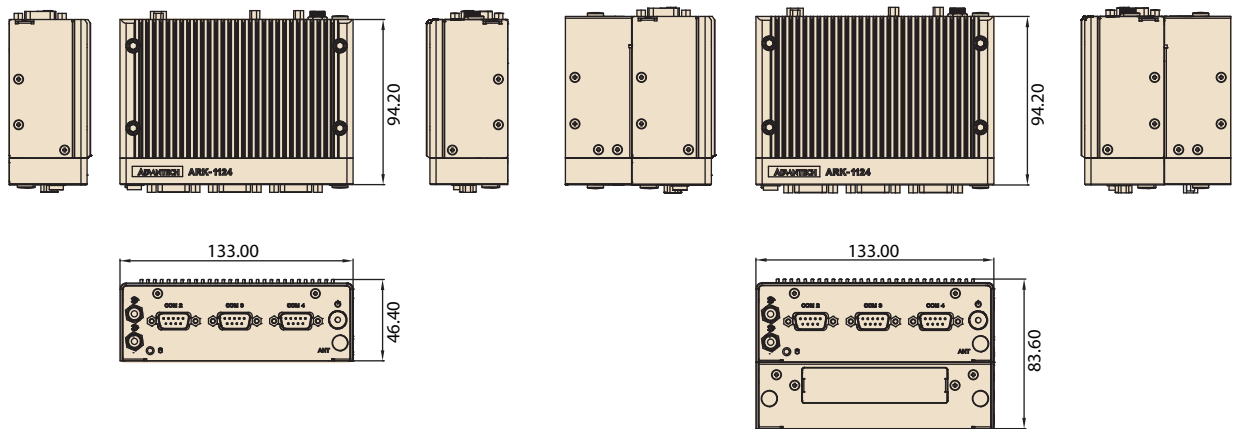
Fanless Embedded Box PCs

All product specifications are subject to change without notice.

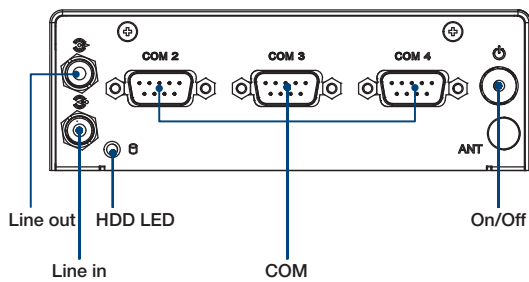
Last updated: 6-Jan-2021

Dimensions

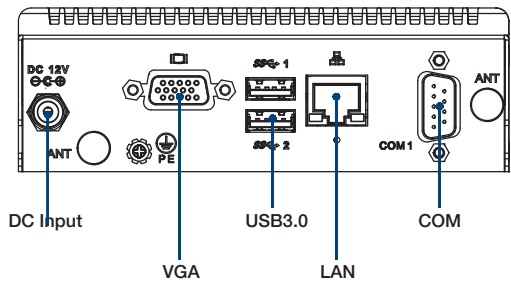
Unit: mm



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 MiniPCle	mSATA	2.5" SATA III HDD Bay	Power Input	Operating Temp.
ARK-1124C-S1A3	Intel Celeron 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-A36W12W7-5	A/D 100-240V 36W 12V C6 LOCKABLE DC PLUG
-	LAN clip
-	Wrench for top cover

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
1700008921	Power Cable 3-pin 180cm, PSE 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

Optional Embedded OS

Part Number	Description
20706WX9ES0061	Win10 IoT Ent LTSC 2019 64bit ENG

ARK Plus Extended Modules

ARK-1124 Dual Layer Expansion Option Items

Expansion Kit Selection



AMO-1101 and iDoor



AMO-1101 and AMO-P011

Ordering Information

Optional ARK Plus Mechanical Kit

P/N	Description
AMO-1101	Mechanical kit for 2nd layer expansion

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-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
MOS-1120Y-0202E	Isolated RS-232, 2-Ch, DB9, PCIe I/F
MOS-1121Y-0202E	Isolated RS-422/485, 2-Ch, DB9, PCIe I/F
MOS-1120Y-1402E	Non-Isolated RS-232, 4-Ch, DB37, PCIe I/F
MOS-1121Y-1402E	Non-Isolated RS-422/485, 4-Ch, DB37, PCIe I/F
MOS-2120-Z1201	Dual Intel I210 GbE LAN, 2-Ch, PCIe I/F

Optional 12-24V DC Power module

Part Number	Description
AMO-P011	12-24V DC input power module Operating temp. -20~60 °C
96PSA-A60W12P2-3	AC to DC ADP, 12V/5A 60W (for AMO-P011)
1702002600	Power cord 3-pin 183cm, USA type (for AMO-P011)
1702002605	Power cord 3-pin 183cm, EU type (for AMO-P011)
1702031801	Power cord 3-pin 183cm, UK type (for AMO-P011)
1700000237	Power cord 3-pin 183cm, PSE type (for AMO-P011)

* For iDoor module expansion, please order AMO-1101 and iDoor P/N

* For Wide range power module expansion, please order AMO-1101 and AMO-P011

* For iDoor and wide range power module expansion, please order AMO-1101, iDoor P/N and AMO-P011

* Dual layer mounting kit is same as single layer

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