

ARK-1124/EIS-D210W Computer

Fanless PC with 4x USB 3.0, AC mode/Wifi

Packing List

Before installation, please ensure the following items have been shipped:

- 1 x ARK-1124 unit
- 1 x Registration and 2 years warranty card
- 1 x China RoHS
- 1 x 12V Power Adaptor
- 1 x Utility CD
- 1 x Simplified Chinese manual

Technical Support and Assistance

- Visit the Advantech web site at www.advantech.com/support where you can find the latest information about the product.
- Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software,
 - A complete description of the problem
 - The exact wording of any error messages

Warnings, Cautions and Notes

Warning! Warnings indicate conditions, which if not observed, can cause personal injury!



Caution! Cautions are included to help you avoid damaging hardware or losing



There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Note! Notes provide optional additional information.



Product Specification

ARK-1124U/EIS-D210W

ARK-1124U/EIS-D	ZIUVV		
Processor System	CPU	Intel Celeron N3350 Dual Core SoC	Intel Atom™ E3940 Quad Core SoC
	Frequency	1.1GHz, turbo burst 2.4 GHz	1.6 GHz, turbo burst 1.8GHz
	L2 Cache	2 MB	·
	BIOS	AMI EFI	
Memory 💥	Technology	DDR3L 1866 MHz	
	Max. Capacity	8 GB	
	Socket	1 x 204-pin SO-DIMM	
Graphics	Chipset	Intel Atom™ integrated, Gen 9th low power	
	Graphic Engine		2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG
	VGA	Up to 2560 x 1600 @ 60Hz	
Ethernet	LAN1	10/100/1000 Mbps Intel i210-IT GbE, support	t Wake On Lan
	LAN2	10/100/1000 Mbps Intel i210-IT GbE, support	
Audio	Interface		
10 Interface	Serial Ports	2 x RS-232/422/485 port with auto flow contr	
	USB Interface	4 x USB 3.0	-
Other	Watchdog timer	255 levels timer interval, setup by software	
	TPM	Infineon SLB9665XQ 2.0 (Optional, T-PN MOQ 30)	
	Mini PCle	1 x full-size mPCle for WLAN/WWAN with SIM holder	
Expansion	Others	1 x M.2 E-key for WIFI	
Storage **	HDD/SSD	Supports 1 x SATA III Drive Bay (Compatible	with 9.5mm height HDD)
Software Support	Microsoft Windows	Windows 10 Enterprise, Windows 10 IoT Core	
	Linux	Support by project	
Power Requirement	Power Type	AT/ATX	
	Power Input Voltage	12Vpc (Optional 12~24V power module, T-PN	MOQ 30, Dual Laver)
	Minimum Power Input	12 V, 1.5 A	
	Power Adapter	AC to DC, DC12 V/3 A, 60 W with lockable D	C Jack
Power Consumption	Typical	5W	
	Max.	33.7W	
Mechanical	Construction	Aluminum housing	
	Mounting	DIN-Rail/Wall/VESA Mounting Kits (Optional)	
	Dimensions (W x H x D)	133 x 44 x 94.2mm (5.24" x 1.73" x 3.71")	
	Weight	TBC	
Environment	Operating Temperature	With extended temperature peripherals: -20 ~	60 °C (-4 ~ 140 °F) with 0.7 m/s air flow
	Operating remperature	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 Hurnidity	95% @ 40 °C (non-condensing)	
		With SSD: 3 Grms, IEC 60068-2-64, random,	
	Vibration During Operation	With HDD: 0.5Grms, IEC 60068-2-64, randon	
	Ob to Domina On time	With HDD: 10G, IEC 60068-2-27, half sine, 1:	
	Shock During Operation	With SSD: 30 G, IEC 60068-2-27, half sine, 1	1 Ins duration
	EMC Sefety Contifications	CE/FCC Class B, CCC, BSMI	
	Safety Certifications	UL, CB, CCC, BSMI	
Wifi Operation	WLAN:		
	2.4GHz: 2412 ~ 2472MHz 5.0GHz: 5180 ~ 5240MHz		
	5260 ~ 5320MHz		
	5500 ~ 5720MHz		
	5745 ~ 5825MHz		
	BT: 2402~2480N	ИНz	

Optional Peripherals.

ARK-1124U/EIS-D210W: Power Input 12V; Dimension 133 x 46.4 x 94.2mm; Adapter: FSP060-DIBAN2 (100-240V 50-60Hz 1.5A O/P:12VDC 5A)

ARK-1124DU/EIS-D210DW: Power Input 12V; Dimension 133 x 83.6 x 94.2mm; Option adapter: FSP060-DIBAN2(100-240V 50-60Hz 1.5A O/P:12VDC 5A)

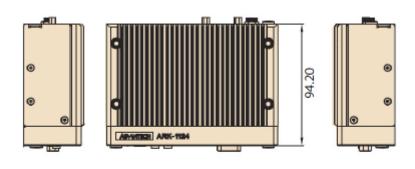
ARK-1124FU/EIS-D210FW : Power Input 12-24V ; Dimension 133 x 83.6 x 94.2mm

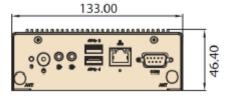
Optional iDoor Expansion

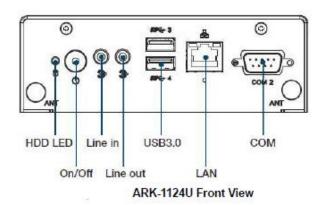
Part Number	Description
MOS-2230-Z1201E	CANBus module, 2-Ch, USB Interface
M0S-2220-X1101E	Parallel LPT module, 1-Ch, USB Interface
MOS-2110Z-1201E	USB module, 2-Ch, PCle Interface
MOS-2120-Z1101E	Giga LAN Ethernet module, 1-Ch, PCle Interface
MOS-1120Y-0201E	Isolated RS-232, 2-Ch, DB9, PCle Interface
M0S-1121Y-0201E	Isolated RS-422/485, 2-Ch, DB9, PCle Interface
MOS-1120Y-1401E	Non-Isolated RS-232, DB37, 4-Ch, PCle Interface
MOS-1121Y-1401E	Non-Isolated RS-422/485, DB37, 4-Ch, PCIe Interface
MOS-1130Y-0201E	Isolated CANBus, 2-Ch, DB9, PCle Interface
MOS-1110Y-0101E	Isolated 16 DI/8 DO, 1-Ch, DB37, PCle Interface
MOS-2220-Z1101E	High Speed COM module, 1-Ch, USB Interface

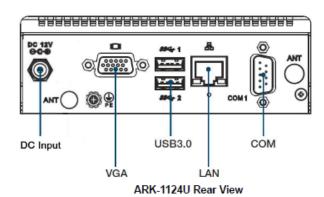
Dimension

133[5.24] x 46.4 [1.83] x 94.2 [3.71] Unit: mm [Inch]









Safety Instructions

- Please read these safety instructions carefully.
- Please keep this User's Manual for later reference.
- Please disconnect this equipment from AC outlet before cleaning. Use a damp cloth. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or clothe for cleaning.
- For pluggable equipment, the socket-outlet shall near the equipment and shall be easily accessible.
- Please keep this equipment from humidity.
- Lay this equipment on a reliable surface when install. A drop or fall could cause injury.
- The openings on the enclosure are for air convection hence protecting the equipment from overheating. DO NOT COVER THE OPENINGS.
- Make sure the voltage of the power source when connecting the equipment to the power outlet.
- Place the power cord such a way that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- If the equipment is not used for long time, disconnect the equipment from mains to avoid being damaged by transient over-voltage.
- Never pour any liquid into ventilation openings; this could cause fire or electrical shock.
- Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- 14. If one of the following situations arises, get the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment does not work well, or you cannot get it to work according to the user's manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.
- 15. Do not leave this equipment in an environment where the storage temperature may go below -40° C (-40° F) or above 85° C (185° F). This could damage the equipment, the equipment should be in a controlled environment.
- Caution: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer, discard used batteries according to the manufacturer's instructions.
- The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70 dB (A).
- RESTRICTED ACCESS AREA: The equipment should only be installed in a Restricted Access Area.
- DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Declaration of Conformity

FCC Class B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution!



FCC Caution:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Operations in the 5.15-5.25GHz band are restricted to indoor usage only.
- This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Radiation Exposure Statement:

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.



www.advantech.com

Please verify specifications before quoting. This guide is intended for reference

purposes only.

All product specifications are subject to change without notice.

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