

# ARK-1125C

## Intel® Atom® Processor x7211E DC SoC with Four Serial Ports Palm Size Fanless Box PC

Preliminary



### Features

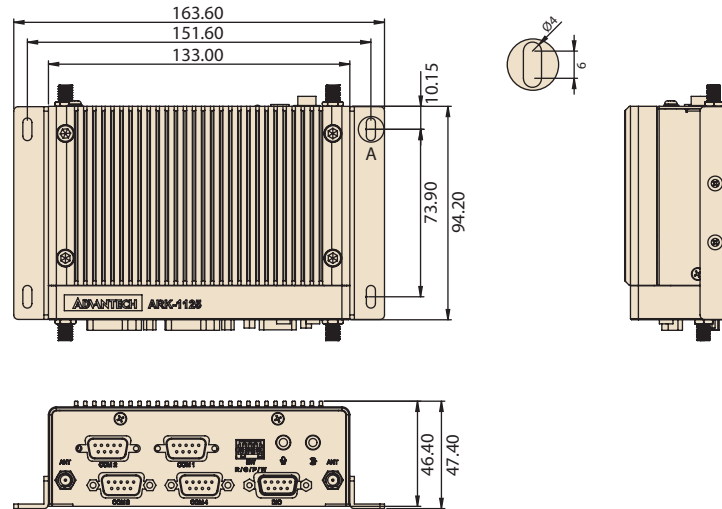
- Intel® Atom® Processor x7211E Dual Core SoC
- DDR5-4800 SO-DIMM memory support up 16G
- Four Serial Ports
- M.2 E Key, B Key and M Key for storage and wireless module installation
- TPM on board for system security
- -30 ~ 60 °C extended operating temperature
- 12V lockable DC jack power input
- Advantech DeviceOn support



### Specifications

		ARK-1125C-S0A1/ARK-1125C-S0A1U
Processor System	CPU	Intel® Atom® Processor x7211E
	Frequency	1.0GHz, Max Turbo Frequency up to 3.2GHz
	Core Number	2
	BIOS	AMI EFI 256 Mbit
Memory	Technology	DDR5 4800 MHz
	Max capacity	16G
	Socket	1x 262-pin SO-DIMM
Graphic	Chipset	Intel® UHD Graphics
	HDMI	4096 x 2160@60Hz
Ethernet	LAN1	Intel i226-LM, 2.5GbE, support Wake On LAN
Audio	Interface	Realtek ALC888S, High Definition Audio, Mic-in and Line-out
I/O Interface	Serial Ports	4x RS232/422/485 (default RS-232) with auto flow control
	USB Ports	2x USB3.2, 2x USB2.0
	GPIO	8-bit Programmable DIO
Expansion	M.2	3x, 1x M.2 2230 E key (PCIe x1), 1x M.2 2280 B key (SATA, PCIe x1), 1x M.2 2242 M key (SATA, PCIe x1)
	TPM	SLB9672XU2.0 FW15.22
Storage	M.2	3x, 1x M.2 2242 M key (SATA, PCIe x1), 1x M.2 2230 E key (PCIe x1) and 1x M.2 2280 B key (SATA, PCIe x1)
Software Support	Microsoft Windows	Windows 10 Enterprise
	Linux	Ubuntu
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12V <sub>DC</sub>
	Minimum Power Input	12V, 5A
	Power Adapter	AC to DC, DC12 V/5 A, 60 W with lockable DC Jack
Power Consumption	Typical	To be confirmed
	Max	To be confirmed
Mechanical	Construction	Aluminum housing
	Mounting	DIN-Rail/Wall/VESA Mounting Kits
	Dimensions (W x H x D)	133 x 46.4 x 94.2mm (5.24" x 1.83" x 3.71") without wall mount kit
	Weight	To be confirmed
Environment	Operating Temperature	With extended temperature peripherals: -30 ~ 60 °C (-22 ~ 140 °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	3 Grms, IEC60068-2-64, random, 5~500 Hz, 1hr/axis (with Wall Mount)
	Shock during Operation	30 G, IEC-60068-2-27, half sine, 11 ms duration (with Wall Mount)
Certification	EMC	CE/FCC Class B, CCC, BSMI, UKCA
	Safety	CB, UL, CCC, BSMI, UKCA

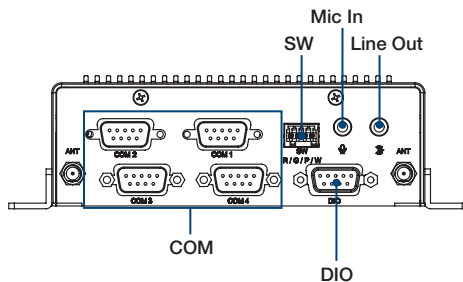
## Dimensions



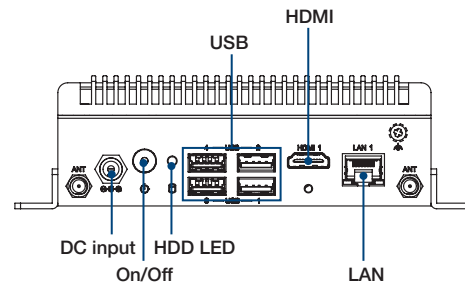
Unit: mm

Note: With Wall Mount Kits

## Front Panel External I/O Mechanical Layout/Drawing



## Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

Part Number	CPU	RAM	Display	GbE	USB	RS-232/422/485	Audio	M.2	Power Input	Made In
ARK-1125C-S0A1	Intel® Atom® Processor x7211E	Up to 16G	1x HDMI	1	2x USB 3.2, 2x USB 2.0	4	Mic-In, Line-Out	3	12V <sub>DC</sub>	China
ARK-1125C-S0A1U	Intel® Atom® Processor x7211E	Up to 16G	1x HDMI	1	2x USB 3.2, 2x USB 2.0	4	Mic-In, Line-Out	3	12V <sub>DC</sub>	Taiwan

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

## Packing List

Part Number	Description
-	1x ARK-1125C unit
-	1x User Manual (Simplified Chinese)
-	Wrench for top cover
1652007880-01	1 x 4-pin terminal block for switch
96PSA-A60W12W7-3	ADP A/D 100-240V 60W 12V C14 LOCKABLE DC PLUG 62368

## Optional Items

Part Number	Description
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable 3-pin 183cm, 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
1700030518-01	CANBus Cable

## Embedded OS

Part Number	Description
to be confirmed	Win10
to be confirmed	Ubuntu