

# ARK-1125H

## Intel® Processor N200 QC SoC with Dual HDMI/ Dual LAN/ Four USB Palm Size Fanless Box PC

NEW



### Features

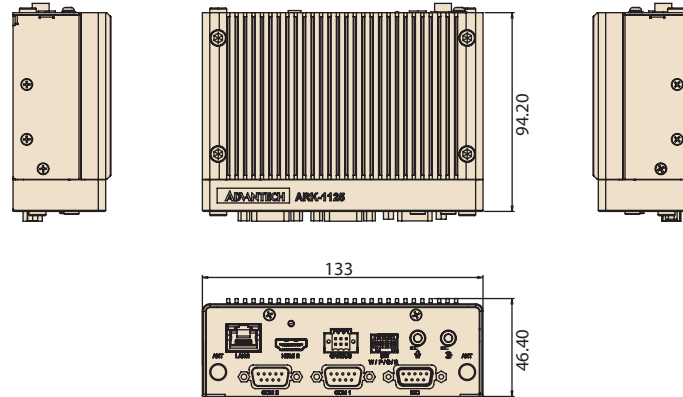
- Intel® Processor N-series N200 QC SoC
- DDR5-4800 SO-DIMM memory support up to 16GB
- Dual HDMI independent display support 4K resolution
- M.2 E Key and B Key for storage and wireless module installation
- TPM on board for system security
- 30 ~ 60 °C extended operating temperature
- 12V lockable DC jack power input
- Advantech DeviceOn support
- RED certified with selected wireless modules



### Specifications

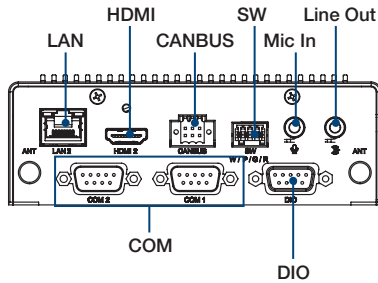
		ARK-1125H-S0A1/ ARK-1125H-S0A1U
Processor System	CPU	Intel® Processor N-series N200
	Frequency	1.0GHz, Max Turbo Frequency up to 3.7GHz
	Core Number	4
	BIOS	AMI EFI 256 Mbit
Memory	Technology	DDR5 4800 MHz
	Max capacity	16GB
	Socket	1x 262-pin SO-DIMM
Graphic	Chipset	Intel® UHD Graphics
	HDMI	4096 x 2160@60Hz
	Dual Display	HDMI + HDMI
Ethernet	LAN1	Intel i226-LM, 2.5GbE, support Wake On LAN
	LAN2	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	2x RS232/422/485 (default RS-232) with auto flow control
	USB Ports	2x USB3.2, 2x USB2.0
	GPIO	8-bit Programmable DIO
	CANBus	2x
Expansion	M.2	2x, 1x M.2 2230 E key (PCIe x1) and 1x M.2 2280 B key with nano SIM holder (PCIe x1)
	TPM	SLB9672XU2.0 FW15.22
Storage	NVMe	2x, 1x M.2 2230 E key (PCIe x1) and 1x M.2 2280 B key (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 (OS idle mode)	10.54 W
	Max (Full loading)	29.18 W
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 mounting kits
	Weight	0.7 kgs
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, RED
	Safety	CB, UL, CCC, BSMI, UKCA

## Dimensions

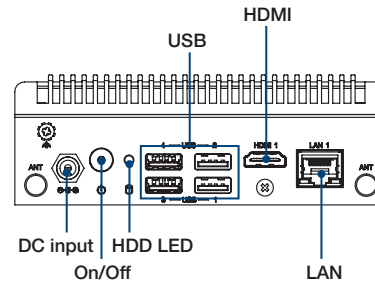


Unit: mm

## 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-1125H-S0A1	Intel® Processor N200	Up to 16G	2x HDMI	2	2x USB 3.2, 2x USB 2.0	2	Mic-In, Line-Out	2	12V <sub>bcc</sub>	China
ARK-1125H-S0A1U	Intel® Processor N200	Up to 16G	2x HDMI	2	2x USB 3.2, 2x USB 2.0	2	Mic-In, Line-Out	2	12V <sub>bcc</sub>	Taiwan

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

## Packing List

Part Number	Description
-	1x ARK-1125H unit
-	1x User Manual (Simplified Chinese)
-	Wrench for top cover
1652007880-01	1 x 4-pin terminal block for switch
1652008233-01	1 x 6-pin terminal block for CANbus
96PSA-A60W12W7-3	ADP A/D 100-240V 60W 12V C14 LOCKABLE DC PLUG 62368

## Embedded OS

Part Number	Description
20706WX1ES0089	img W10 21EL ARK-1125H 64b 21H2 ENU
20706U22DS0049	img UbuntuD ARK-1125H 64b 22.04 ENU

## 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
170000237	Power cable 3-pin 183cm, PSE type
1700001714	Power cable 3-pin 183cm, Taiwan BSMI
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 Items Certified by RED

Part Number	Description	Suggested Qty per Unit
AIW-170BQ-001	Qualcomm WiFi6E M.2 2230 E key	1
1751000460-01	Wi-Fi 6E Dipole Antenna L=111.7mm 3.22dBi	2 (for AIW-170BQ-001)
1751000622-01	Cable Ant. SMA/F-R MHF4L/113 BLK L150mm	2 (for AIW-170BQ-001)
AIW-356DQ-E01	5G Sub6+GNSS M.2 3052 Key B, USB only	1
1960103315N010	M.2 Bracket	1 (for AIW-356DQ-E01)
1750009372-01	Ant.SMA/M 90/180 5G BLK 167mm RG178	4 (only 5G with AIW-356DQ-E01) or 3 (5G+GNSS with AIW-356DQ-E01)
1751000361-01	GPS&BEIDOU ANTENNA L=5m	1 (GNSS with AIW-356DQ-E01)
1751000625-01	Cable Ant. SMA/F MHF4L/113 BLK L150mm	2 (for AIW-356DQ-E01)
1751000649-01	Cable Ant. SMA/F MHF4L/113 BLK L100mm	2 (for AIW-356DQ-E01)

Note: AIW-170BQ-001 and AIW-356DQ-E01 cannot be installed in ARK-1125H at the same time.

ARK-1125H with AIW-170BQ	ARK-1125H with AIW-356DQ (5G)	ARK-1125H with AIW-356DQ (5G+GNSS)
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