

ARK-1125H

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

Preliminary



Features

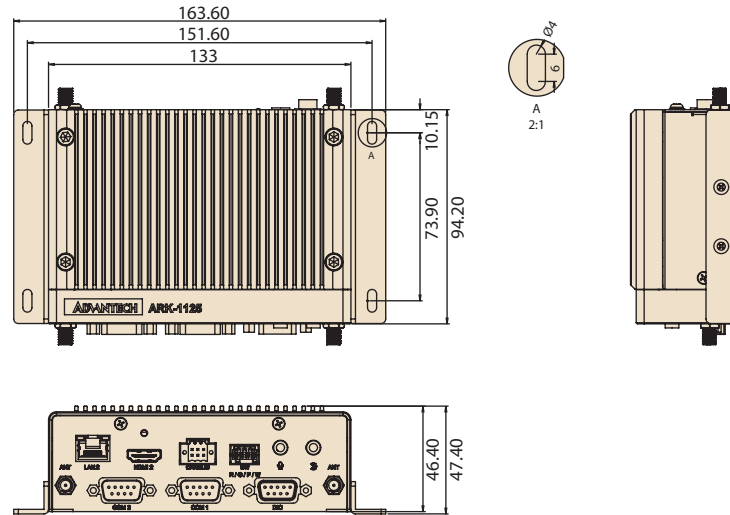
- Intel® Processor N-series N200 QC SoC
- DDR5-4800 SO-DIMM memory support up to 16G
- Dual HDMI independent display support 4K resolution
- M.2 E Key and B Key for storage and wireless module installation
- TPM on board for system security
- -30 ~ 60 °C extended operating temperature
- 12V lockable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



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	16G
	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 (SATA, PCIe x1)
	TPM	SLB9672XU2.0 FW15.22
Storage	M.2	2x, 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 _{DC}
	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 mounting kits
	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

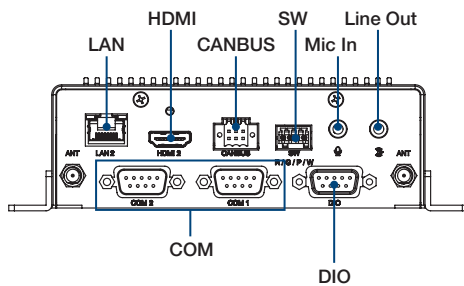
Dimensions



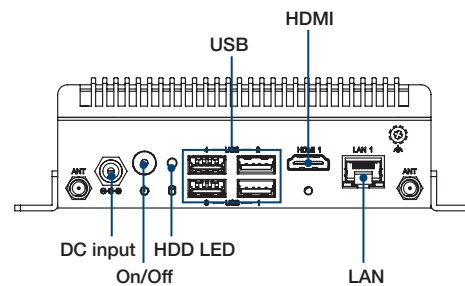
Unit: mm

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-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 _{DC}	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 _{DC}	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

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

Embedded OS

Part Number	Description
to be confirmed	Win10
to be confirmed	Ubuntu