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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ARK-1123H

Intel® Celeron Quad Core J1900 SoC with Dual HDMI/GbE IoT Fanless BOX PC

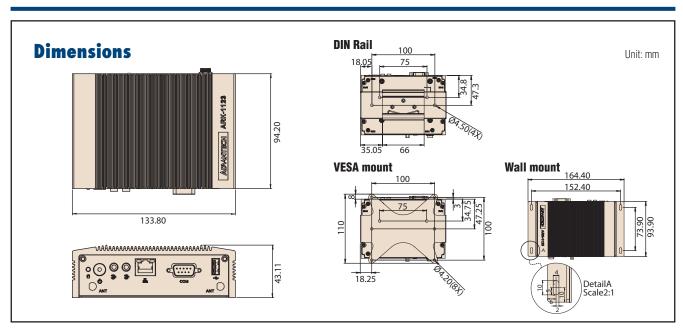


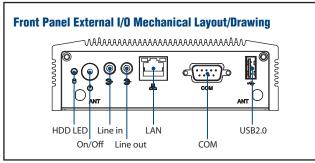
Features

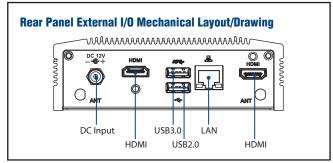
- Intel® Celeron J1900 Quad Core 2.0 GHz SoC
- 1 x 2.5" SATA HDD/SSD Bay
- 2 x GbE for Multiple Internet Transmission
- 2 x Independent HDMI
- 1 x RS-232/422/485 (BIOS selection)
- 1 x Full-Size MiniPCle (ex. WLAN or WWAN module)
- 1 x Half Size mSATA
- Optional VESA / DIN Rail / Wall Mounting kits
- Threaded DC jack design
- Supports SUSIAccess and Embedded Software APIs
- Support WIFI 802.11 a/b/g/n bundled for IoT Gateway

WISE-PaaS/RMM @ C F FC ROHS

Specification	ns						
-		ARK-1123H-U0A1E					
	CPU	Intel® Celeron™ Processor J1900 Quad Core 2.0 GHz SoC					
D	Frequency	2.0 GHz (Up to 2.41 GHz w/ burst frequency enabled)					
Processor System	L2 Cache	2 MB					
	BIOS	AMI EFI 64 Mbit (Default BIOS is supported for 64-bit OS installation, BIOS for 32-bit OS is supported by project)					
	Technology	DDR3L 1333MHz					
Memory	Max. Capacity	8 GB					
,	Socket	1 x 204-pin SO-DIMM					
	Chipset	Intel® Atom SoC integrated					
Graphics	Graphic Engine	DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 Encode: H264, MPEG2/4, VC1, WMV9 Decode: H264, MPEG2					
	HDMI	2 x Lockable HDMI connector, support up to 1920 x 1080 at 60Hz (2nd HDMI w/o audio function by Intel limitation)					
Audio	Main System	ALC-888S, High Definition Audio. Line-out & Line-in					
Ethernet	LAN #1	10/100/1000 Mbps Intel I210 GbE, support Wake on LAN					
LUIGIIIGU	LAN #2	10/100/1000 Mbps Intel I210 GbE, support Wake on LAN					
I/O Interface	Serial Ports	1 x RS-232/422/485 (BIOS selectable)					
I/O IIILGITAGE	USB Interface	2 x USB 2.0 & 1 x USB3.0					
Other	Watchdog timer	255-level timer interval, setup by software					
Expansion	Mini PCle	1 x Full-size Mini PCle, support WLAN or WWAN module					
Storage	2.5" Drive Bay	1 x 2.5" SATA HDD Bay (Max Height 9.5mm)					
Sitinage	mSATA	1 x Half-size mPCle (Suggest to assembly by CTOS or T-Part due to complex installation)					
Software Support	Microsoft Windows	WES7, Windows 7, WE8S, Windows 8 and Windows 10 (32-bit support by project)					
Sultware Support	Linux	Support (by Project)					
Power Requirement	Power Input Voltage	Single 12 V _{DC}					
rower nequirement	Power Adapter	AC to DC, DC12 V/3 A, 36 W with threaded design					
Power Consumption	Typical	5.64W					
Power Consumption	Max.	14.04W					
	Construction	Aluminum housing					
Mechanical	Mounting	VESA/DIN Rail/Wall Mounting Kits (Optional)					
IVIECTIATIICAI	Dimensions (W x H x D)	133.8 x 43.1 x 94.2 mm (5.27" x 1.7" x 3.71")					
	Weight	0.8kg					
	Operating Temperature	With extended temperature SSD/mSATA/RAM : -20 ~ 60° C with 0.7m/s air flow With standard temperature HDD/SSD/mSATA/RAM peripherals:0 ~ 40° C with 0.7m/s air flow					
	Storage Temperature	-40 ~ 85° C (-40~185° F)					
Environment	Relative Humidity	95% @ 40° C (non-condensing)					
Environment	Vibration During Operation	With mSATA/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, 3 axes, 1hr/axis					
	Shock During Operation	With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration					
Dogulation	EMC	CE/FCC Class B, CCC, BSMI					
Regulation	Safety	UL, CCC, BSMI, CB					







Ordering Information

Part Number	CPU	RAM	нрмі	GbE	USB 2.0	USB 3.0	RS-232/ 422/485	Audio	MiniPCle	2.5" HDD bay	mSATA	Operating Temperature
ARK-1123H-U0A1E	Intel Celeron J1900	Up to 8GB	2	2	2	1	1	Line in Line out	1 Full size	1	1 (H/S)	-20 ~ 60° C

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

Packing List

Part Number	Description
-	1 x ARK-1123H Unit
-	1 x User Manual (Simplified Chinese)
96PSA-A36W12W7	1 x AC to DC adapter DC 12V/3A 36W, -20 ~ 60° C

Embedded OS (Only available for T-Parts OEM, and CTOS service)

Part Number	Description
2070013033	WES7E 64-bit with EN/JP/TC/SC (OS size around 11G)
2070013371	WE8S 64-bit with EN/JP/TC/SC (OS size around 13G)
2070014792	WIN10 IoT LTSB_x64_Eng
2070014334	Win10 IoT Core_x32 V10.1.10586.0 EN
2070014369	IDP-WR3.1_x64 V1.0.1 EN

Optional Items

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 PSE Mark 183cm
AMK-V003E	ARK-112X series VESA mounting kit
AMK-R001E	ARK-112X series DIN-rail mounting kit
AMK-W001E	ARK-112X series Wall mounting kit
1700023855-01	1M lockable HDMI cable
1700023856-01	3M lockable HDMI cable
AMO-WIFI08E	WIFI802.11a/b/g/n, Atheros AR9462,2T2R