ARK-10

Intel® Atom J1900 Quad Core SoC with Dual GbE and Dual COM Fanless Box PC

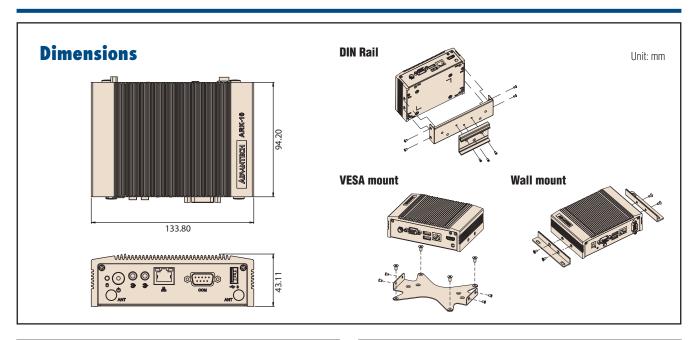


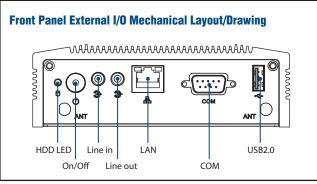
Features

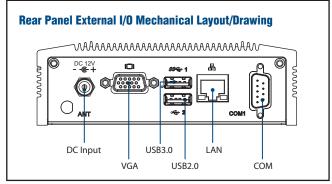
- Intel® Atom™ J1900 Quad Core 2.0 GHz SoC
- 2G DDR3L Memory & 500G 2.5" 24x7 SATA HDD Built In
- 2 x GbE for Multiple Internet Transmission
- 2 x RS-232/422/485 (BIOS selection)
- 1 x Full-Size MiniPCle (ex. WLAN or WWAN module)
- 1 x Half-Size MiniPCle (ex. mSATA)
- Optional VESA / DIN Rail / Wall Mounting kits
- Threaded DC jack design
- Supports SUSIAccess and Embedded Software APIs

Specifications

		ARK-10-U0A1E		
	ODLI			
	CPU	Intel® Atom™ Processor J1900 Quad Core SoC		
Processor System	Frequency	2.0 GHz (Up to 2.41 GHz w/ burst frequency enabled)		
	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)		
Memory	Technology	DDR3L 1333 MHz		
TWO THOU Y	Socket	1 x 204-pin SO-DIMM, 2 GB Memory Built In		
	Chipset	Intel® Atom SoC integrated		
		DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0		
Graphics	Graphic Engine	Encode: H264, MPEG2/4, VC1, WMV9		
	110.1	Decode: H264, MPEG2		
	VGA	1 x VGA, support up to 1920 x 1200 at 60Hz		
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		
201011100	LAN #2	10/100/1000 Mbps Intel I210 GbE, support Wake on LAN		
I/O Interface	Serial Ports	2 x RS-232/422/485 (BIOS selectable)		
I/O IIItoriaco	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	1 x Full-size Mini PCle, support WLAN or WWAN module		
Ελραιισίστι	Mini PCle #2	1 x Half-size Mini PCle, support mSATA module		
Storage	2.5" Drive Bay	1 x 500GB 2.5" 24x7 SATA HDD Built In		
Siviaye	mSATA	Leverage MiniPCle #2 slot (Suggest to assembly by CTOS or T-Part due to complex installation)		
Software Support	Microsoft Windows	WES7, Windows 7, WE8S, Windows 8 (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		
	Construction	Aluminum housing		
Mechanical	Mounting	VESA/DIN Rail/Wall Mounting Kits (Optional)		
	Dimensions (W x H x D)	133.8 x 43.1 x 94.2 mm (5.27" x 1.7" x 3.71")		
	Operating Temperature	0 ~ 50° C with 0.7m/s air flow		
	Storage Temperature	-40 ~ 85° C (-40~185° F)		
Environment	Relative Humidity	95% @ 40° C (non-condensing)		
	Vibration During Operation	0.5Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis		
	Shock During Operation	10G, IEC 60068-2-27, half sine, 11 ms duration		
	EMC	CE/FCC Class A, CCC, BSMI		
Regulation				







Ordering Information

ı	Part Number	CPU	RAM	VGA	GbE	USB 2.0	USB 3.0	RS-232/ 422/485	Audio	MiniPCle	2.5" HDD bay	mSATA	Operating Temperature
,	ARK-10-U0A1E	Intel Atom J1900 QC	2GB Built In	1	2	2	1	2	Line in Line out	1 Half-size 1 Full-size	1 x 500G 2.5" 24x7 HDD Built In	1	0 ~ 50° C

Packing List

Part Number	Description
-	1 x ARK-10 Unit
-	1 x User Manual (Simplified Chinese)
1757004096-01	1 x AC to DC adapter DC12 V/3 A 36 W, 0 ~ 40° C with threaded design

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

Part Number	Description
2070013062	WES7E 64-bit with EN/JP/TC/SC (OS size around 11G)
2070013368	WE8S 64-bit with EN/JP/TC/SC (OS size around 13G)

^{*} Default BIOS is supported for 64-bit OS installation, BIOS for 32-bit OS is supported by project.

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