ARK-2121F

Intel® Celeron® Quad Core J1900 SoC with Multiple I/Os Fanless Box PC



Features

- Intel® Celeron® J1900 Quad Core 2.0 GHz SoC with Turbo boost support
- VGA and HDMI dual independent display
- 6 x COM, 6 x USB, isolated DIO
- 9 ~ 36 V_{DC} wide range power input
- -20 ~ 70° C extend temperature operating
- Mini PCle expansion with SIM holder for communication module
- mSATA and 1 x 2.5" SATA storage device
- Optional DVI/2nd HDMI/4x GbE by project support
- Internal USB for security dongle

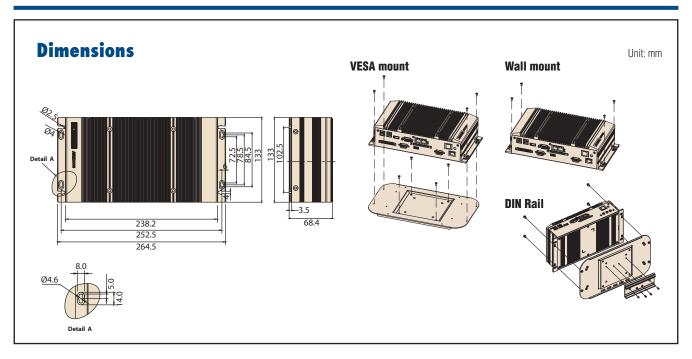


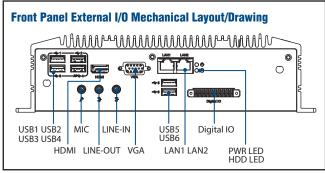


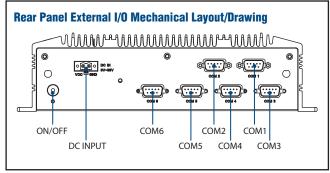


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	CPU	Intel Celeron Processor J1900 Quad Core SoC				
	Frequency	2.0 GHz, turbo boost up to 2.42 GHz				
ocessor System	L2 Cache	2 MB				
	BIOS	AMI EFI				
	Technology	DDR3L 1333 MHz				
emory	Max. Capacity	8 GB				
oniory	Socket	1 x 204-pin SO-DIMM				
	Chipset	Intel Celeron J1900 SoC integrated, 7th Gen. Intel Graphic core				
	Опрасс	DirectX 11.1, OCL 1.2, OGL 3.2				
	Graphic Engine	Encode: H.264, MPEG2/4, VC1, WMV9				
	Grapino Engino	Decode: H.264, MPEG2				
raphics	VGA	Up to 2048 x 1152 @ 60Hz				
артноо	HDMI	1 HDMI port (default), HDMI 1.4a for HD video playback, 1080P at 60Hz (2nd HDMI support by project only)				
	DisplayPort*	Up to 2560 x 1600 at 60Hz (by Project only)				
	DVI-D	Up to 1920 x 1200 at 60Hz (by Project only)				
	Dual Display	Yes, VGA + HDMI				
hernet	LAN1/LAN2	10/100/1000Mbps Intel i210 GbE, support Wake On LAN, optional LAN3/LAN4 support by project				
ıdio	Interface	Realtek ALC888S, High Definition Audio. Line-out, Mic-in, Line-in				
	Serial Ports	6 x RS-232/422/485 with auto flow control				
Interface	USB Interface	1 x USB 3.0, 5 x USB 2.0, 1 x internal USB 2.0 for security dongle				
	PS/2	Yes (by project only)				
	Watchdog timer	255 levels timer interval, setup by software				
ther	Digital I/O	4ch digital input and 4ch digital output with 3kV isolation				
rpansion	Mini PCle	2 x full size Mini PCIe (1 with SIM holder)				
	HDD	Supports one SATA 2.5" HDD Bay (Compatible with 12.5mm height HDD) (Max. Data Transfer Rate 600 MB/s)				
orage	mSATA	1 x full size mSATA socket, with USB signal co-lay				
	Microsoft Windows	WES8, Windows 8, WES7, Windows 7				
oftware Support	Linux	Support by project				
	Power Type	ATX				
	Power Input Voltage	9 ~ 36 V _{DC}				
ower Requirement	Minimum Power Input	12 V, 1.5 A				
	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W (Optional)				
	Typical	8.4W				
wer Consumption	Max.	16.2W				
	Construction	Aluminum housing				
	Mounting	Din-Rail mounting, Desk/wall-mounting, VESA mounting				
echanical	Dimensions (W x H x D)	264.5 x 68.4 x 133.0 mm (10.41" x 2.69" x 5.24")				
	Weight	2.3 kg (5.07 lb)				
	Operating Temperature	With extended temperature peripherals: -20 ~ 70° C (-4 ~ 158° F) with 0.7m/s air flow With 2.5-inch hard disk 0 ~ 45° C (32 ~ 112° F) with 0.7m/s air flow				
	Storage Temperature	- 40 ~ 85° C (-40 ~ 185° F)				
	Relative Humidity	95% @ 40° C (non-condensing)				
nvironment	Vibration During Operation	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.				
	Shock During Operation	With SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration				
	EMC	CE/FCC Class A, CCC, BSMI				
	Safety Certifications	UL. CB. CCC. BSMI				
	Salety Cettifications	UL. UD. UUU. DƏIVII				

^{*} DisplayPort is supported by project only.







Ordering Information

Part No.	CPU	VGA	HDMI/DP*	GbE	USB 2.0	USB 3.0	RS-232/ 422/485	Audio	Full-size MiniPCle	SIM	mSATA	2.5" SATA II HDD Bay	Power Input	Operating Temp.
ARK-2121F-U0A1E	Intel Celeron	Yes	Yes	2	5	1	6	Lin-out,	2	1	1	1	9 ~ 36 V _{DC}	-20 ~ 70° C

Note: Memory, storage and operating system bundled by request. *DP is support by project only.

Packing List

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Part Number	Description
-	1 x ARK-2121 Unit
-	1 x User Manual (Simplified Chinese)
-	1 x China RoHS
1700009001	1x 2-pin Phoenix to DC-Jack power cable
1960069484N000	2 x LAN clip

Embedded OS

Part Number	Description
2070013717	WES7E 64bit ENG/JP/TC/SC
2070013716	WES8E 64bit ENG/JP/TC/SC

Optional Items

Part Number	Description					
96PSA-A65W19P2-2	AC-to-DC Adapter, DC 19V/3.42A 65W, 0 \sim 40° C for Home and Office Use					
1700001524	Power cable 3-pin 183cm, USA type					
170203183C	Power cable 3-pin 183cm, EU type					
170203180A	Power cable 3-pin 183cm, UK type					
AMK-V004E	VESA mounting kit					
AMK-R004E	DIN-rail mounting kit					
1652003235	10pin DIO Plug in block					