

ARK-2150F Intel® 3rd Generation Core i3-3217UE/i7-3517UE Fanless PC with 4 x GbE and isolated digital IO

Preliminary



Features

- Intel® Core™ i3 and i7 processors + Intel QM77 PCH
- 1 x DDR3/DDR3L SO-DIMM, support up to 8 GB
- DirectX11, OpenGL3.1, OpenCL1.1, triple independent display: VGA + HDMI/DisplayPort+DVI-D
- Supports Intel AMT8.0
- Supports 4 x Intel GbE
- Support 4ch digital input and 4ch digital output with 2.5KV isolation
- Supports 2 x USB 3.0, 3 x USB 2.0, 4 COMs ports
- Supports 1 x internal mSATA socket and 1 x 2.5" HDD drive bay
- 12-24V wide range DC input with lockable connector
- Supports iManager, SUSIAccess and Embedded Software APIs
- IP40

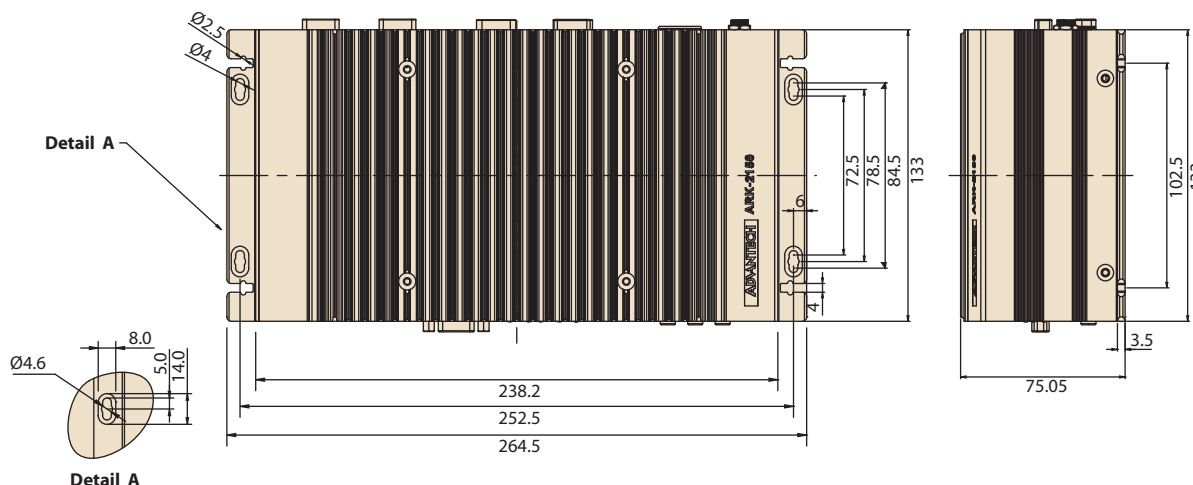


Specifications

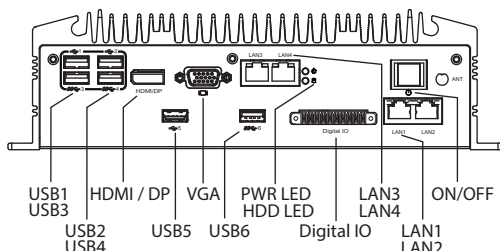
		ARK-2150F-S6A1E	ARK-2150F-S7A1E
Processor System	CPU	Intel ULV Core i3 3217UE	Intel ULV Core i7 3517UE
	Max. Speed	Dual Core 1.6 GHz	Dual Core 1.7 GHz (Max Turbo Frequency 2.8 GHz)
	L3 Cache	3 MB	4 MB
	System Chipset	Intel QM77	
	BIOS	AMI EFI 64Mbit	
Memory	Technology	DDR3 1600MHz, DDR3L 1333 MHz	
	Max. Capacity	8 GB	
	Socket	1 x 204-pin SO-DIMM	
Graphics	Chipset	Intel QM77 Integrated GFX Gen 7	
	Graphic Engine	DirectX11, OpenGL 3.1, and Open CL 11 Hardware decpde acceleration: AVC/H.264, M PEG-2, VC-1	
	VGA	Integrated 340.4MHz RAMDAC, Max resolution up to 2048 x 1536 @ 75Hz	
	HDMI/DP	Supports HDMI 1.4 for HD Video playback Max resolution up to 2560 x 1600 @ 60Hz on DisplayPort, Max resolution up to 1920 x 1200 @ 60Hz on HDMI	
	DVI-D	Max resolution up to 1920 x 1200	
	Triple/Dual independent display	Yes, VGA+HDMI/DisplayPort+DVI-D, VGA+HDMI/DVI-D, VGA+DVI-D, HDMI/DisplayPort+DVI-D	
Ethernet	LAN1	10/100/1000 Mbps Intel 82579LM Ethernet controller, support Wake On Lan	
	LAN2/LAN3/LAN4	10/100/1000 Mbps Intel 82583V Ethernet controller	
Audio	Interface	Realtek ALC892, High Definition Audio. Line-out, Mic-in, Line-in	
I/O Interface	Serial Ports	4 x RS-232/422/485 port with auto flow control	
	USB Interface	3 x USB 3.0 ports and 3 x USB 2.0 ports	
Other	Digital I/O	4ch digital input and 4ch digital output with 2.5KV isolation	
	Watchdog timer	255 levels timer interval, setup by software	
Expansion	Mini PCIe	2 x Full-size Mini PCIe (Supports mSATA & SIM) 1 x Half-size Mini PCIe	
Storage	HDD	Supports one drive bay for SATA 2.5" HDD (Compatible with 12.5mm height HDD)	
	SSD	Supports one internal mSATA socket	
Software Support	Microsoft Windows	Windows 7, Windows 7 Embedded, XP Professional, XP Embedded, WinCE 7.0	
	Linux	Ubuntu 12.04	
Power Requirement	Power Type	AT/ATX	
	Power Input Votage	12 ~ 24 V _{ac}	
	Minimum Power Input	12 V ~ 24 V, 4.0 A ~ 2 A	
	Power Adapter	AC to DC, DC 19V/3.42A 65W (Optional)	
Power Consumption	Typical	22 Watt	
	Max.	27 Watt	
Mechanical	Construction	Aluminum housing	
	Mounting	Din-Rail mounting, Desk/wall-mounting, VESA mounting	
	Dimensions (W x H x D)	264.5 x 75.1 x 133.0 mm (10.41" x 2.96" x 5.24")	
	Weight	2.8kg (6.17lb)	
Environment	Operating Temperature	With extended temperature peripherals: -20 ~ 60° C (-4 ~ 140° 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)	
	Vibration During Operation	With SSD: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.	
	Shock During Operation	With SSD: 50 G, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class A, CCC, BSMI	
	Safety Certifications	UL, CCC, BSMI	

Dimensions

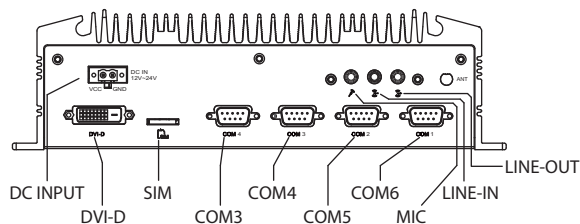
Unit: mm (inch)



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	VGA	HDMI/DP	DVI-D	GbE	USB 3.0	USB 2.0	RS-232/422/485	DIO	Audio	Half-size Mini PCIe	Full-size Mini PCIe*	SIM	2.5" SATAII HDD Space	Power Input	Operation Temp.
ARK-2150F-S6A1E	Intel Core i3 ULV 1.6GHz 3217UE DC, 17W	Yes	Yes	Yes	4	3	3	4	4ch DI and 4ch DO with 2.5KV isolation	Line-out, Line-in, MIC	1	2	1 x external	1	12-24V	-20 ~ 60° C
ARK-2150F-S7A1E	Intel Core i7 ULV 1.7GHz 3517UE DC, 17W	Yes	Yes	Yes	4	3	3	4	4ch DI and 4ch DO with 2.5KV isolation	Line-out, Line-in, MIC	1	2	1 x external	1	12-24V	-20 ~ 60° C

* Full-size Mini PCIe supports mSATA

Packing List

Part Number	Description
-	1 x ARK-2150 Unit
-	1 x Utility CD
-	1 x User Manual (Simplified Chinese)
-	1 x China RoHS

Ordering Information

Part Number	Description
ARK-2150F-S6A1E	Intel Core i3 3217UE 1.6GHz fanless EBC, VGA+HDMI+DVI-D, 4GbE, 3USB3.0, 4COM
ARK-2150F-S7A1E	Intel Core i7 317UE 1.6GHz fanless EBC, VGA+HDMI+DVI-D, 4GbE, 3USB3.0, 4COM

Optional Items

Part Number	Description
1757003659	AC-to-DC Adapter, DC19 V/3.42 A 65 W, with Phoenix Power Plug, 0 ~ 40° C for Home and Office Use
1700001947	Power cable 2-pin 180 cm, USA type
1700001948	Power cable 2-pin 180 cm, Europe for ARK-338X
1700001949	Power cable 2-pin 180 cm, UK for ARK-338X
1960025333N00N	VESA mounting bracket
9666K10000E	DIN-rail mounting kit

Embedded OS

Part Number	Description
2070011831	Image WES7E SP1 x32 V5.1 ATIP
2070011830	Image WES2009 V4.2 multi 24 language