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ARK-1550

Intel® 4th Generation Core i5 4300U/
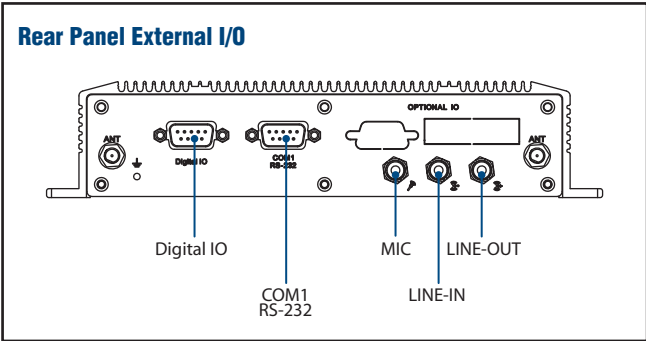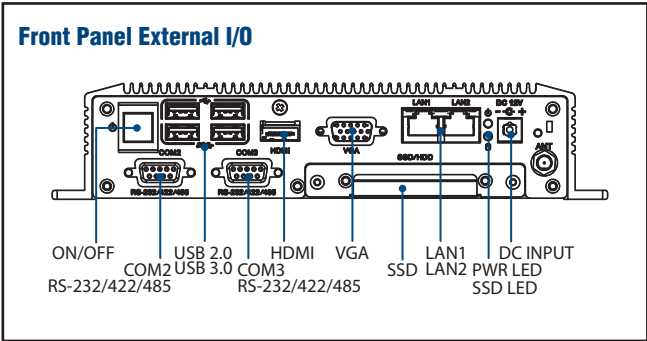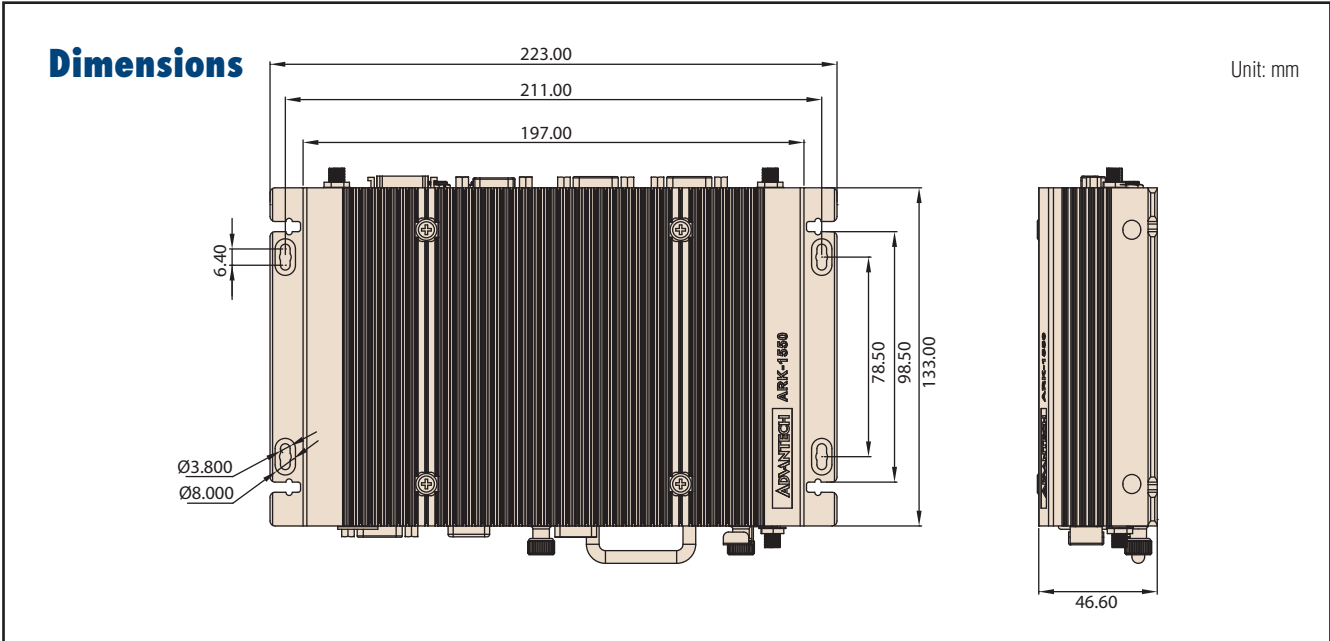Celeron 2980U SoC Slim and Panel
Mountable Fanless Box PC

NEW

Features

- Intel® Dual Core Celeron 2980U 1.6 GHz / Core i5 4300U 1.9 GHz SoC
- One Hot Swappable 2.5" SATA HDD Bay and mSATA slot
- Triple Independent Displays by VGA + HDMI + LVDS (LVDS option)
- Optional VESA / DIN Rail Mounting kits
- Supports 2 x Intel GbE and 1 x GPIO
- Built-in 1 x full size MiniPCIe (i.e.: 3G module) and 1 x half size MiniPCIe slot (i.e.: WIFI module)
- Lockable DC jack design
- Supports iManager, SUSIAccess and Embedded Software APIs
- Support Intel Turbo Boost Technology 2.0 in Core i5 4300U

Windows Embedded

WISE-PaaS/RMM íManager CCC CE FCC RoHS COMPLIANT 2002/95/EC

Specifications

		ARK-1550-S6A1E	ARK-1550-S9A1E
Processor System	CPU	Intel Celeron 2980U Dual Core	Intel i5-4300U Dual Core
	Frequency	1.6 GHz	1.9 GHz (Up to 2.9 GHz w/ Turbo Boost 2.0 enabled)
	L3 Cache	2 MB	3 MB
	BIOS	AMI EFI 128 Mbit	
Memory	Technology	DDR3L 1333 MHz	DDR3L 1600 MHz
	Max. Capacity	8 GB	
	Socket	1 x 204-pin SO-DIMM	
Graphics	Chipset	Intel HD Graphics	Intel GT2-4400 Graphics
	Graphic Engine	DirectX11.1, OpenGL 4.0, and OpenCL 1.2 Full AVC/VC1/MPEG2 HW Decode	
	VGA	Up to 1920 x 1200 at 60 Hz	
	HDMI	Lockable HDMI connector, up to 4096 x 2304 at 24 Hz (Lockable HDMI cable optional)	
	LVDS (Option)	Dual channel 24-bit LVDS, max resolution up to 1920 x 1200 with 60Hz (Support by T-Part or CTOS)	
Audio	Main System	Realtek ALC888S, High Definition Audio (HD), Line-in, Line out, Mic-in	
Ethernet	LAN #1	10/100/1000 Mbps Intel I218 GbE, support Wake on LAN	
	LAN #2	10/100/1000 Mbps Intel I210 GbE, support Wake on LAN	
I/O Interface	Serial Ports	1 x RS-232 & 2 x RS-232/422/485 (BIOS selectable)	
	USB Interface	2 x USB 2.0 & 2 x USB3.0	
	GPIO	8 bit GPIO	
Other	Watchdog timer	255-level timer interval, setup by software	
Expansion	Mini PCIe	1 x Full-size Mini PCIe, support mSATA storage or WWAN module	
	PCIe	1 x PCIe with half-size mini card interface, w/o USB signal	
Storage	2.5" Drive Bay	1 x Hot Swappable 2.5" SATA drive bay (Max Height 9.5 mm)	
	mSATA	Laverage MiniPCIe #1 slot	
Software Support	Microsoft Windows	WES8, WES7, Windows 8, Windows 7	
	Linux	Support (by Project)	
Power Requirement	Power Type	ATX/AT	
	Power Input Voltage	12 V_{DC}	
Mechanical	Construction	Aluminum housing	
	Mounting	Desk/Wall Mounting (Standard), VESA & DIN-Rail Mounting Kit (Optional)	
	Dimensions (W x H x D)	223 x 46.6 x 133.0 mm (8.69" x 1.81" x 5.18")	
Environment	Operating Temperature	With extended temperature SSD/mSATA/RAM :-20 ~ 55° 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)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration During Operation	With mSATA/SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
	Shock During Operation	With mSATA/SSD: 30G, IEC 60068-2-27, half sine, 11 ms duration	
Regulation	EMC	CE/FCC Class A, CCC, BSMI	
	Safety	UL, CCC, BSMI, CB	

ADVANTECH Fanless Embedded Box PCs

All product specifications are subject to change without notice

Dimensions

Unit: mm

223.00
211.00
197.00

6.40

78.50
98.50
133.00

Ø3.800
Ø8.000

46.60

Front Panel External I/O

ON/OFF
COM2 RS-232/422/485
USB 2.0 USB 3.0
COM3 RS-232/422/485
HDMI
VGA
SSD
LAN1 LAN2
DC INPUT
PWR LED
SSD LED

Rear Panel External I/O

Digital IO
COM1 RS-232
MIC
LINE-IN
LINE-OUT

Ordering Information

Part Number	Intel CPU	RAM	VGA	HDMI	GbE	USB 2.0	USB 3.0	GPIO	RS-232	RS-232/ 422/485	Audio	MiniPCIe	2.5" HDD bay	mSATA	Operating Temperature
ARK-1550-S6A1E	Intel Celeron 2980U 1.6GHz	Up to 8GB	1	1	2	2	2	1	1	2	Line in Line out Mic in	1 Full size w/SIM	1	1	–20 ~ 55° C
ARK-1550-S9A1E	Intel Core i5 4300U 1.9GHz														

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

Packing List

Part Number	Description
-	1 x ARK-1550 Unit
-	1 x User Manual (Simplified Chinese)
-	1 x Power bracket

Embedded OS

Part Number	Description
2070012825	WES7E 64bit with EN/JP/TC/SC (OS size around 11G)
2070012882	WE8S 64bit with EN/JP/TC/SC (OS size around 13G)
2070014895	Win10 IoT Ent (Value) 64bit Eng

Optional Items

Part Number	Description
96PSA-A60W12R1-1	AC-to-DC Adapter, DC 12V/5A 60W, with DC Jack Plug, 0 ~ 40° C for Home and Office Use
96PSA-A84W12V1	AC-to-DC Adapter, DC 12V/7A 84W, with DC Jack Plug, 0 ~ 70° C for Wide Temperature Use
1702002600	Power cable 3-pin 183 cm, USA type
1702002605	Power cable 3-pin 183 cm, Europe type
1702031801	Power cable 3-pin 183 cm, UK type
1700000237	Power cable 3-pin 183 cm, PSE type
AMK-V004E	VESA mounting kit
AMK-R004E	DIN-rail mounting kit
AMO-I014E	LVDS Module w/ cables. (Support by T-Part or CTOS)
1700023855-01	1M lockable HDMI cable
1700023856-01	3M lockable HDMI cable