

# ARK-1310

## Cost-effective, Entry-level Automation System Solution

**NEW**



### Features

- Built-in x86 SoC 150 MHz
- Cost effective entry-level solution
- Onboard 64 MB Memory
- Supports VGA (LVDS optional)
- 4 x RS-232/422/485
- 2 x 10/100 LAN and 2 x USB 2.0
- 1 x CF sockets
- -20 ~ 65° C operating temperature
- IP40

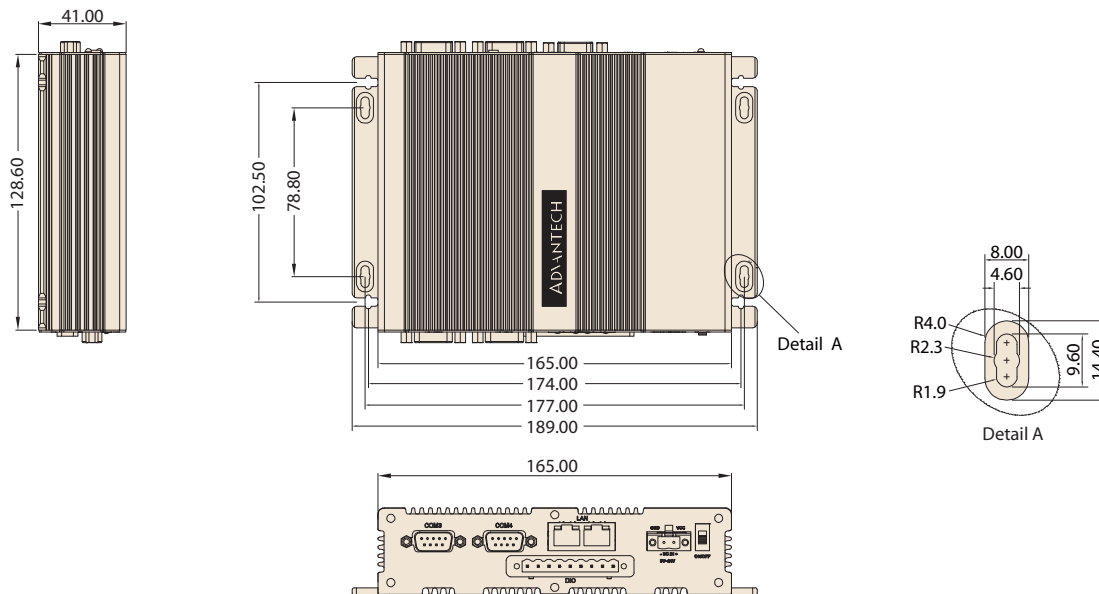


### Specifications

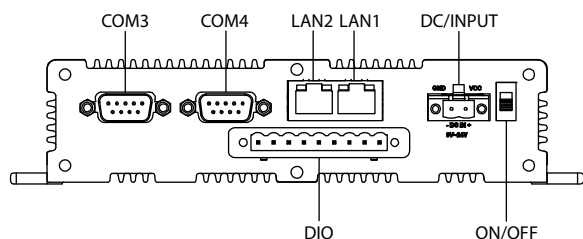
Processor System	CPU	Advantech EVA-X4150
	Max. Speed	150 MHz
	System Chipset	Advantech EVA-X4150
	BIOS	Award integrated 256 KB ROM
Memory	Technology	SDRAM
	Max. Capacity	Onboard 64 MB
Graphics	Chipset	SMI 712 Graphic chip
	Interface	CRT interface (ARK-1310F-00A1E only) 18/24-bit LVDS (optional)
Ethernet	LAN 1	10/100 Mbps
	LAN 2	10/100 Mbps
I/O Interface	Serial Ports	4 x RS-232/422/485 jumper-selectable ports and RS-485 supports Auto Flow control
	Parallel Port	Optional
	USB Interface	2 x USB ports, USB 2.0 Compliant
	Keyboard/Mouse	1x PS/2 port, Supports PS/2 Mouse and Keyboard
Other	Digital I/O	8 bit programmable DIO with phoenix connector
	Watchdog Timer	255 level timer interval, setup by software
Storage	HDD	-
	SSD	Supports 1 x CompactFlash socket for type I/II CompactFlash disk
Software Support	Microsoft Windows	CE .NET 6.0, DOS
	Linux	Linux 2.4/2.6
Power Requirement	Power Type	AT
	Power Input Voltage	9 V <sub>DC</sub> ~ 24 V <sub>DC</sub>
	Minimum Power Input	9V@1.91A --- 24V@0.72A
	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W
Power Consumption	Typical	6 W
	Max	7.2 W
Mechanical	Construction	Aluminum housing
	Mounting	DIN-rail mounting; Desk/wall-mounting; VESA mounting
	Dimensions (W x H x D)	189 x 41 x 130.6 mm (7.44" x 1.61" x 5.14")
	Weight	1.15 kg (2.53 lb)
Environment	Operating Temperature	-20 ~ 65° C (-4 ~ 149° F)
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration During Operation	With CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1hr/axis.
	Shock During Operation	With CompactFlash disk: 50 Grms, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A, CCC, BSMI
	Safety Certifications	UL, CCC, BSMI

## Dimensions

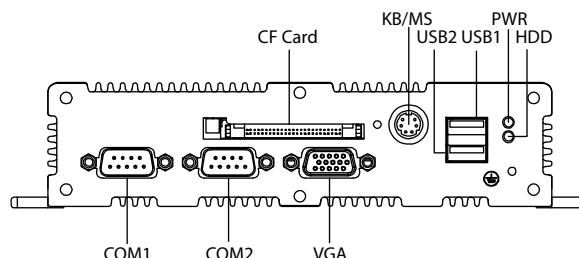
Unit: mm



### Front Panel External I/O Mechanical Layout/Drawing



### Rear Panel External I/O Mechanical Layout/Drawing



## Packing List

Part Number	Description
-	1 x ARK-1310 unit
1700001394	1 x 2-Pole Phoenix to DC-Jack Power Cable
	1 x Driver/Utility CD/manual
	1 x Traditional Chinese user manual for CCC
	1 x China RoHS

## Optional Items

Part Number	Description
1757000222	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 Type
1700001949	Power Cable 2-pin 180 cm, UK Type
1700002141	Power Cable 2-pin PSE Mark 183 cm
9666K10000E	DIN-rail Mounting Kit
9666K10001E	VESA Mounting plate
1700060202	PS2 Keyboard/Mouse Cable

## Ordering Information

Part Number	Description
ARK-1310F-00A1E	EVA-X4150, VGA/4 x RS-232/422/485 Ultra-compact embedded box IPC
ARK-1310L-00A1E	ARK-1310F w/o VGA