

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 (128 MB optional)
- Supports VGA (LVDS optional)
- 4 x RS-232/422/485, (2 support isolation)
- 2 x 10/100 LAN and 2 x USB 2.0
- 1 x CF sockets
- -20 ~ 65° C operating temperature
- IP40

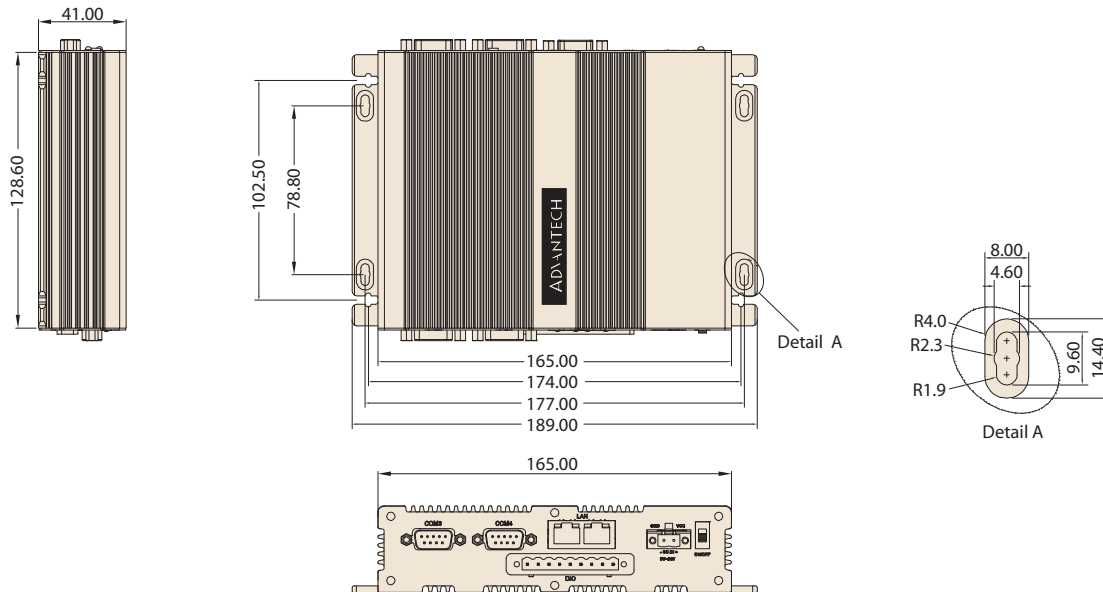


Specifications

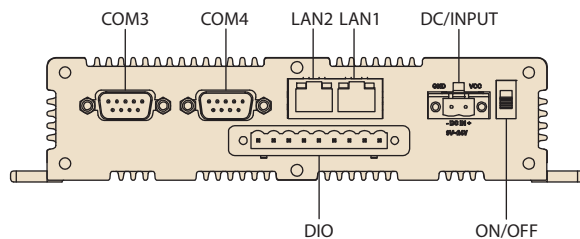
Processor System	CPU	Advantech EVA-X4150
	Max. Speed	150 MHz
	System Chipset	Advantech EVA-X4150
	BIOS	Award integrated 256 KB ROM
Memory	Technology	SDRAM
	Max. Capacity	up to 128 MB, default is onboard 64 MB
Graphics	Chipset	SMI 712 Graphic chip
	Interface	CRT interface (ARK-1310F-00A1E only) 18/24-bit 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 2 x RS-232/422/485 with isolation 3.75 kv (ARK-1310F-00A1E only)
	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
	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 _{DC} ~ 24 V _{DC}
	Minimum Power Input	9 V @ 1.91 A, 12 V @ 1.43 A, 19 V @ 0.9 A, 24 V @ 0.72 A
	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

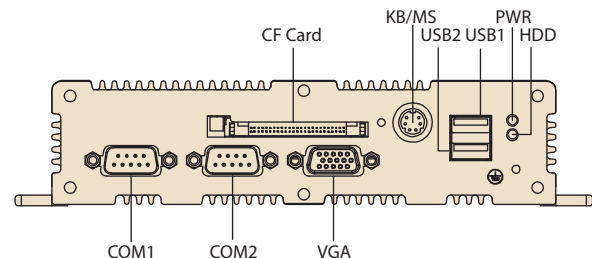
Unit: mm



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 * 2 with isolation. Ultra-compact embedded box IPC
ARK-1310L-00A1E	ARK-1310F w/o VGA, 2 x isolation