ARK-1380

Mainstream Solution for Space Critical Applications



Features

- Fanless, ultra compact embedded box IPC
- Built-In Intel® Ultra Low Voltage Celeron® M 1 GHz (512 KB L2 Cache)/ 600 MHz CPU
- Two RS-232/422/485 serial ports and Four USB ports
- Comprehensive display, communication and connectivity
- Ultra compact size, VESA mounted, robust construction with fanless operation
- Windows® CE .NET & Windows® XP Embedded ready solution
- IP40

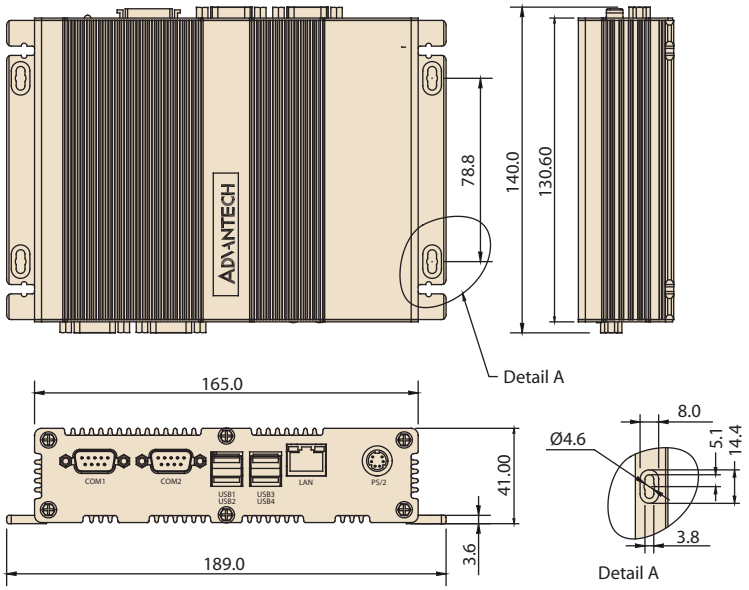
Specifications

Processor System	CPU	Intel Celeron M ULV	Intel Celeron M ULV
	Max. Speed	373 (1 GHz)	600 MHz
	Front Side Bus	400 MHz FSB	400 MHz FSB
	System Chipset	Intel 855GME + ICH4 Chipset	Intel 852GM + ICH4 Chipset
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR 333/400 MHz	
	Max. Capacity	1 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Built-in 855GME/ 852GM	
	Interface	CRT interface Dual 18-bit LVDS interface	
Ethernet	LAN	10/100 Mbps Ethernet controller, Supports Wake on LAN	
Audio	Amplifier	Output 2.2 W Amplifier	
	Interface	1 x D-sub 15-pin connector, Line-in, Spkr-out, Mic-in	
I/O Interface	Serial Ports	2 x RS-232/422/485 ports by BIOS selectable	
	USB Interface	4 x USB ports, USB 2.0 Compliant	
	Keyboard/Mouse	1 x PS/2 port, Supports PS/2 Mouse and Keyboard	
Other	Watchdog Timer	255 level timer interval, setup by software	
Expansion	PC Card	1 Slot PC Card, Supports CardBus (Card-32) and 16-bit (PCMCIA 2.1/JEIDA4.2) cards 5 V and 3.3 V working power	
Storage	HDD	-	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
Software Support	Microsoft Windows	Windows XP Embedded, Windows XP Professional, Windows 2000, Windows CE .NET 6.0	
Power Requirement	Power Type	AT/ATX	
	Power Input Voltage	9 V_{DC} ~ 35 V_{DC}	
	Minimum Power Input	9 V @ 3.8 A, 12 V @ 2.9 A, 19 V @ 1.84 A, 35 V @ 1 A	
	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W	
Power Consumption	Typical	13.5 W (ULV Celeron M 1.0 G)	
	Max	16.2 W (ULV Celeron M 1.0 G)	
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	0 ~ 60° C (32 ~ 140° 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	

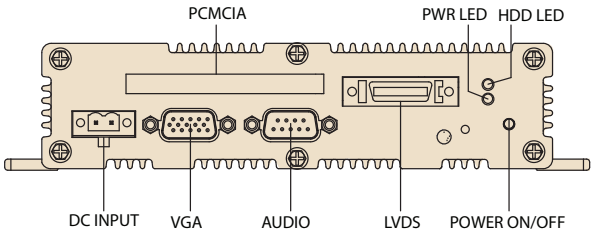
All product specifications are subject to change without notice

Dimensions

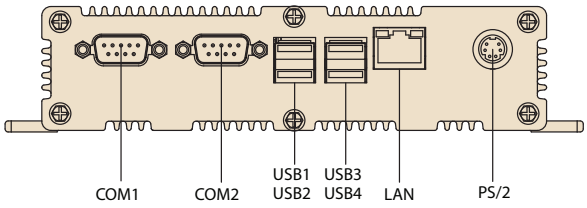
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

Part Number	Description
-	1 x ARK-1380 unit
1700001394	1 x 2-Pole Phoenix to DC-Jack Power Cable
1700006011	1 x DB-9 Male to Mic-In, Line-out, Line-in Audio Cable
	1 x Driver/Utility CD/Manual
	1 x Traditional Chinese user manual for CCC
	1 x China RoHS

Ordering Information

Part Number	Description
ARK-1380-1S0A1E	Intel Celeron M ULV 1 GHz Ultra-compact embedded box IPC
ARK-1380-2S0A1E	ARK-1380-1S0A1E with 512 MB Memory, 1 GB CF, Windows XP Embedded
ARK-1380-1M0A1E	Intel Celeron M ULV 600 MHz Ultra-compact embedded box IPC
ARK-1380-2M0A1E	ARK-1380-1M0A1E with 512 MB Memory, 1 GB CF, Windows XP Embedded

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

Embedded OS (Only available for T-Parts OEM, and CTOS service)

Part Number	Description
2070005331	ARK-1380 XPe V3.01-2, English, Chinese-Traditional, Chinese-Simplified, Japanese
2070005332	ARK-1380 XPe V3.01-2 ,English, French, German, Italian, Spanish
2070001121	CE50 Pro Plus ARK-1380 V1.2 ENG
2070001123	CE60 Pro ARK-1380 V1.0 ENG