

# ARK-1382

## High Performance Solution with Multi-display Support for Signage Applications



### Features

- Built-in Intel® Celeron® M ULV 423 1.06 GHz / Core™ Duo ULV U2500 1.2 GHz CPU
- Flexible Display mode, supports dual DVI-I, DVI + VGA independent display and dual VGA clone mode
- Two serial ports and four USB ports One 10/100/1000 Mbps Ethernet
- One MiniPCI socket for WLAN, VGA card support
- Audio Spkr-out (Left and Right), 2.2W amplifier, RCA connector
- Supports one external SATA 1.0 device
- Ultra compact size, VESA mounted, robust construction with fanless operation
- IP40

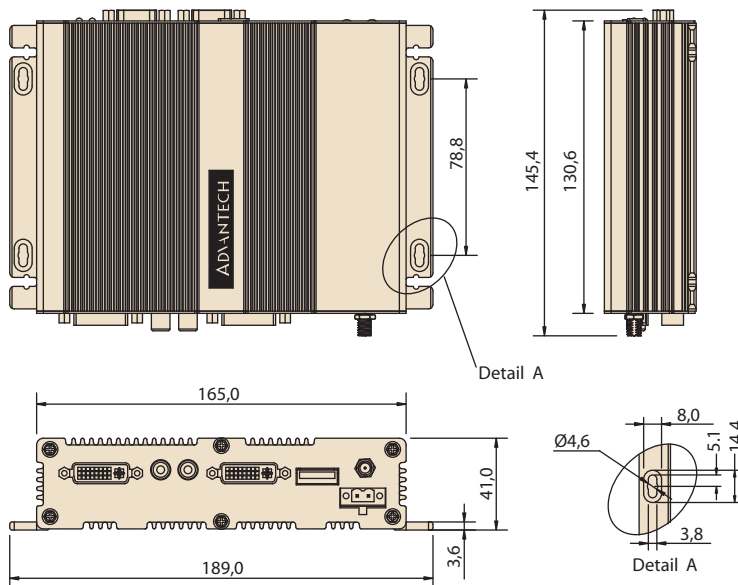


### Specifications

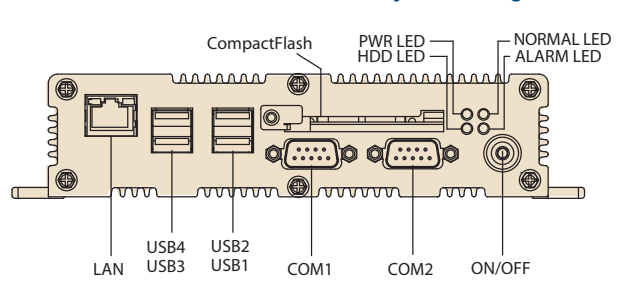
Processor System	CPU	Intel Core Duo ULV	Intel Celeron M ULV
	Max. Speed	U2500 (1.2 GHz)	Yonah (1.06 GHz)
	Front Side Bus	533 MHz FSB	533 MHz FSB
	System Chipset	945GM + ICH7-M	
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR2 533/667 MHz (945GM)	
	Max. Capacity	2 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Built-in Intel 945GM Integrated Graphic Accelerator	
	Interface	Dual DVI-I interface (supports DVI and VGA, VGA supported by DVI-I to CRT connector)	
Ethernet	Controller	10/100/1000 Mbps Ethernet controller, Supports Wake on LAN	
Audio	Amplifier	Output 2.2 W Amplifier	
	Interface	Spkr-out (L&R), RCA connector	
I/O Interface	Serial Ports	2 x RS-232/422/485 ports by Jumper selectable	
	USB Interface	5 x USB ports, USB 2.0 Compliant	
Communication	Wireless LAN	802.11b/g WLAN miniPCI module (ARK-1382W-S0A1E)	
Other	Thermal Alarm	Blue LED Lighting	
	Watchdog Timer	255 level timer interval, setup by software	
Expansion	Mini PCI	1 Slot Mini PCI	
Storage	HDD	Supports eSATA drive	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
Software Support	Microsoft Windows	VISTA, XP Professional, XP Embedded, 2000, CE .NET 6.0	
Power Requirement	Power Type	AT/ATX	
	Power Input Voltage	9 V <sub>DC</sub> ~ 35 V <sub>DC</sub>	
	Minimum Power Input	9 V @ 3.89 A, 12 V @ 2.92 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	16 W ( Intel ULV Core Duo U2500 1.2 GHz)	
	Max	25.46 W ( Intel ULV Core Duo U2500 1.2 GHz)	
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	Intel Celeron M ULV 423 1.06 GHz: 0 ~ 60° C (32 ~ 140° F) with airflow Intel Core Duo ULV U2500 1.2 GHz: 0 ~ 50° C (32 ~ 122° F) with airflow	
	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

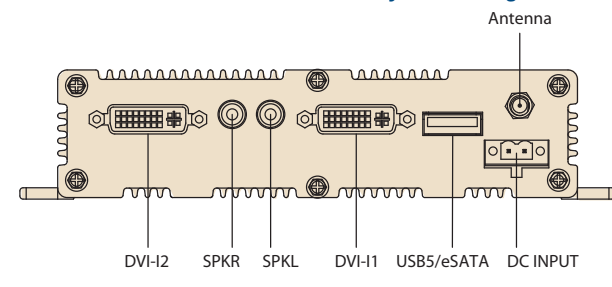
Unit: mm



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



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



## Packing List

Part Number	Description
-	1 x ARK-1382 unit
1700001394	1 x 2-Pole Phoenix to DC-Jack Power Cable
1654000446	1 x DVI-I to CRT connector
1750000318	1 x Antenna 2DBI 2.4 GHz SMA Conn (for ARK-1382W-S0A1E)
	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
1700004713	Cable DVI to DVI and CRT 15 cm
1750003222	802.11b/g 5dBi Dipole Antenna

## Ordering Information

Part Number	Description
ARK-1382-S0A1E	Intel Celeron M ULV 423 1.06 GHz Ultra-compact embedded box IPC
ARK-1382W-S0A1E	ARK-1382-S0A1E, with 802.11b/g WLAN
ARK-1382-S2A1E	Intel Core Duo ULV U2500 1.2 GHz Ultra-compact embedded box IPC

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

Part Number	Description
2070005449	ARK-1382 XPe V3.01-2, English, Chinese-Traditional, Chinese-Simplified, Japanese
2070005451	ARK-1382 XPe V3.01-2, English, French, German, Italian, Spanish