Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

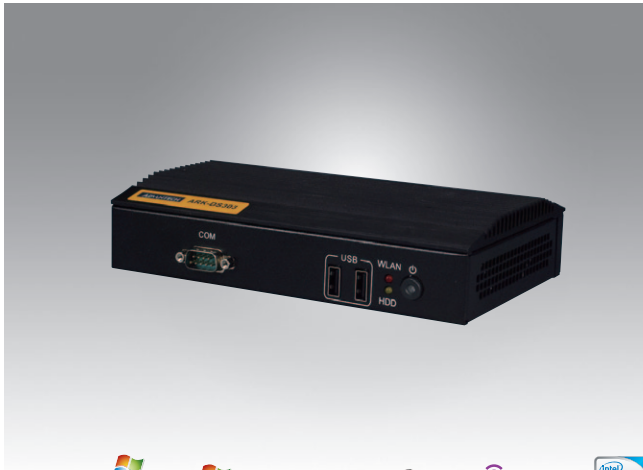## Contact us

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ARK-DS303

Value Digital Signage Player

Features

- Intel® Atom™ processor N270 1.6 GHz and System Controller Hub 945GSE
- Supports HD up to 720P; optional support up to 1080P with add-on HD decoding module
- Dual display of HDMI and VGA
- Built-in Mini PCIe slot for easy expansion e.g. WiFi
- Supports 4 x USB 2.0 (Internal 2 x USB 2.0), 1 x COM
- Supports VESA mounting

Tested by the following software partners:

signage**live**
delivering media to your screens

Introduction

ARK-DS303, which runs on an Intel® Atom™ N270 1.6 GHz processor featuring low power and high value, is quick and responsive. Integrated with a hardware decoder, ARK-DS303 is able to provide real-time, full HD output with performance that exceeds expectations. It is a power-efficient, multimedia signage player at the most affordable price available in today's market.
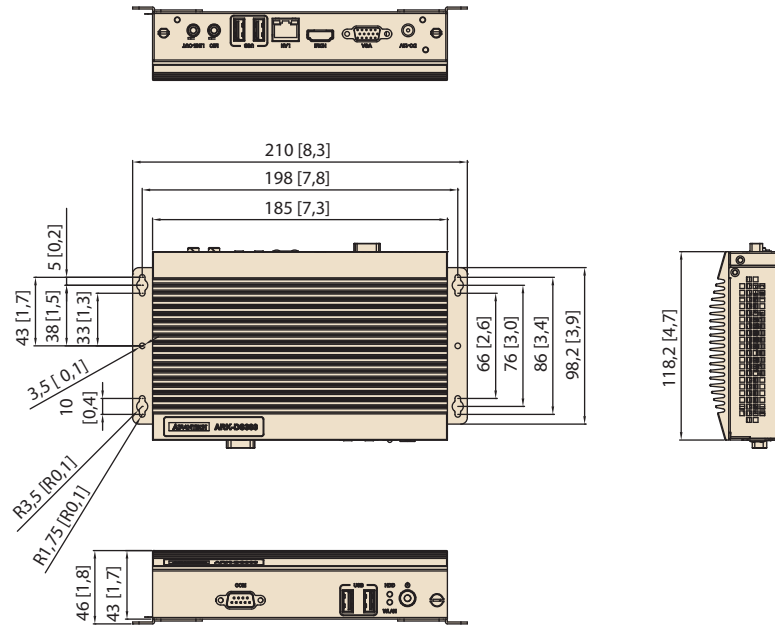
Specifications

Processor System	CPU	Intel Atom N270 1.6GHz
	System Chipset	Intel 945GSE + ICH7M
	L2 Cache	512 KB
	BIOS	Award 4 MB Flash BIOS
	Front Side Bus	533 MHz
Memory	Technology	1 x DDR2 200 pin 400/533 SO-DIMM
	Max. Capacity	Max. up to 2 GB
Graphics	Chipset	Intel 945GSE chipset
	Memory Size	Shared system memory up to 224MB
	Resolution (Chipset support)	CRT Up to 2048 x 1536, HDMI up to 1080P(Max Resolution)
	Output	HDMI x 1, VGA x 1 (ARK-DS303L supports VGA only)
	Dual display	Yes
	Video format	H.264,VC1, MPEG2, DivX version 3.11 and later, MPEG4 Part 2 SP & ASP *depends on support SPEC of player
Storage	SATA	One 2.5" SATA HDD
	CF	CompactFlash socket for type I/II
Ethernet	Interface	Gigabit LAN Controller
	Controller	Realtek RTL8111D
	Connector	1 x RJ-45
IO Interface	HDMI	1 (N/A on ARK-DS303L)
	VGA	1
	LAN	1 (RJ-45)
	USB	4 (USB 2.0 compliant)
	Audio	2 audio phone jacks for Line-out, Mic-in (ARK-DS303L supports Line-out only)
	Serial	1 x COM (RS-232)
	Mini-PCIe (Internal)	1 (Occupied by HD decoder module on ARK-303P; N/A on ARK-DS303L)
	Power input	1 x 12V DC-in
Power Requirement	Management	ACPI 2.0
	Power Consumption Input Voltage	Typical: 8 W (CPU is Intel Atom Processor N270 1.6 GHz and w/o expansion) Max.: 11 W (CPU is Intel Atom Processor N270 1.6 GHz and w/o expansion)
	Input Voltage	12V DC-in (ATX/AT mode)
	Other	Supports Boot on Power back and schedule boot up function
Watchdog Timer	Output	Interrupt, system reset
	Interval	255-level timer interval, setup by software
Physical Characteristics	Mounting	Easy mounting kits for LCD or Plasma
	Dimensions (W x H x D)	185x 118.2x 43 mm
	Weight	1.2 kg
Environment	Temperature	0 ~ 40° C (32 ~ 104° F), operating; -20 ~ 70° C (-4 ~ 158° F), storage
	Relative Humidity	95% @ 40° C (non-condensing), Operating (For ARK-DS303B/ ARK-DS303F)
	Vibration Resistance	0.5Gms, IEC 60068-2-64, Random 5-500Hz, 1hr/axis
Software Development Kit	Operating System	Win7, Win7 Embedded, XP with SP3, XP Embedded, Linux
	EWF & WDT SDK	EWF and WDT library for signage stability design in XPE
Certification	EMC	CE/FCC Class A, CCC, BSMI
	Safety	UL, CB, CCC, BSMI

* The playback is supported by the software not provided by Advantech

Dimensions

Unit: mm (inch)

Packing List

Part Number	Description
-	1 x ARK-DS303 Unit
-	1 x Driver/Utility CD/Manual
-	1 x User Manual (Simplified Chinese)
-	1 x 12V power adapter
-	1 x China RoHS
-	1 x Mounting plate set

Ordering Information

Part Number	Description
ARK-DS303B-S6A2E	ARK-DS303, N270, Barebone
ARK-DS303F-S6A2E	ARK-DS303, N270 w/ 500G HDD, 1G RAM
ARK-DS303P-S6A2E	ARK-DS303, N270 w/ 500G HDD, 1G RAM, HD decoder (1080P)
ARK-DS303L-S6A2E	ARK-DS303L, N270 w/16G(MLC) CF card, 2G RAM, XPE (24 languages)

Power Cord

Part Number	Description
1700001524	3-pin power cord (US)
170203183C	3-pin power cord (EU)
170203180A	3-pin power cord (UK)
1700008921	3-pin power cord with PSE (Japan)
1700019146	3-pin power cord (CCC)

Installation Illustration

ARK-DS303 with standard mounting bracket

Embedded S/W

Part Number	Description
2070011378	XPE WES2009 ARK-DS303 V4.1 Multi 24
2070012062	Win7 Embedded (WES7E) ARK-DS303 V5.1.5 (EN/TC/SC/JP)

Accessories

Part Number	Description
AMO-WIFI06E	WIFI 802.11 b/g/n Mini-PCIE Module (including Antenna & Cable)
AMO-HSDPA02E	3.75G HSPA Full-size Mini PCIe Module (including Antenna & Cable)
AMK-V001E	VESA mount kit
AMK-V002E	VESA mount kit for ARM