

# ARK-DS303

## Value Digital Signage Platform

**NEW**



### 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 following software partners:

**signagelive**  
 ●●● delivering media to your screens

### Specifications

Processor System	CPU	Intel Atom N270 1.6GHz
	System Chipset	Intel 945GSE + ICH7M
	L2 Cache	512 KB
	BIOS	AWARD 4 Mbit Flash BIOS
	Front Side Bus	533 MHz
Memory	Technology	1 x DDR2 200 pin 400/533 SO-DIMM
	Max. Capacity	Default 1GB, max. up to 2GB
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
	Dual display	Yes
Storage	Video format	H.264, VC1, MPEG2, DivX version 3.11 and later, MPEG4 Part 2 SP & ASP *depends on support SPEC of player
	SATA	Default 2.5" SATA HDD, 160GB
	CF	CompactFlash socket for type I/II
Ethernet	Interface	Gigabit LAN Controller
	Controller	Realtek RTL8111D
	Connector	1 x RJ-45
IO Interface	HDMI	1
	VGA	1 (D-sub 15-pin)
	LAN	1 (RJ-45)
	USB	4 (USB 2.0 compliant)
	Audio	2 audio phone jacks for Line-out, Mic-in
	Serial	1 x COM (RS-232)
	Mini-PCIe (Internal)	1 (for optional expansion modules)
	Power input	1 DC jack
Power Requirement	Management	ACPI 2.0
	Power Consumption Input Voltage	Typical: 8.28 W (CPU is Intel Atom Processor N270 1.6 GHz and w/o expansion) Max.: 10.44 W (CPU is Intel Atom Processor N270 1.6 GHz and w/o expansion)
	Input Voltage	12V DC-in (ATX/AT mode)
	Others	Supports Boot on Power back and schedule boot up function
Watchdog Timer	Output	Interrupt, system reset
	Interval	Programmable 1-255sec.
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 , storage
	Relative Humidity	95% @ 40° C (non-condensing), Operating
	Vibration Resistance	0.5Gms, IEC 60068-2-64, Random 5-500Hz, 1hr/axis
Software Development Kit	Operating System	Supports Microsoft Windows 7, XP with SP3, XP Embedded
	EWf & WDT SDK	EWf and WDT library for signage stability design in XPE
	Linux	Linux Fedora 9.0
Certification	Electromagnetic	CE, FCC
	Safety	UL, CB, CCC, BSMI

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

**ADVANTECH** Embedded Signage BOX

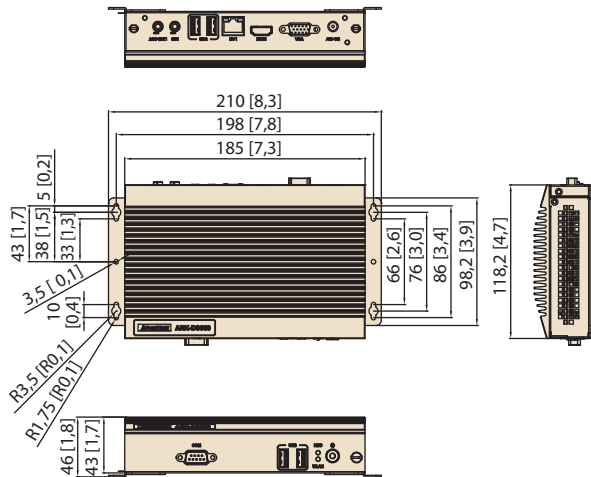
All product specifications are subject to change without notice

Last updated : 11-Jan-2011

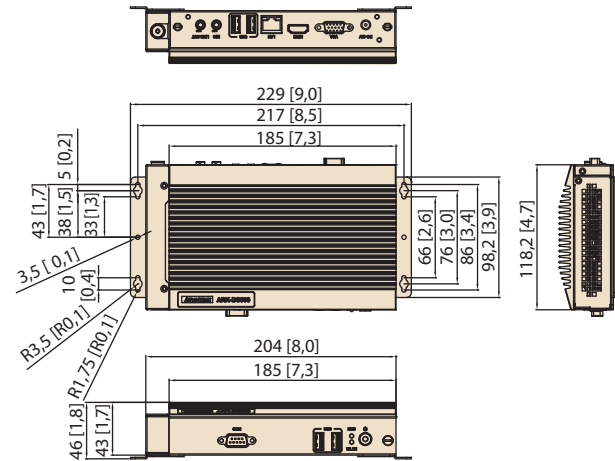
## Dimensions

Units: mm (inch)

### Standard Module



### With Add-on TV tuner Module



## Ordering Information

Part Number	Description
ARK-DS303B-S6A2E	ARK-DS303 A2 Barebone, N270 w/o HDD, RAM
ARK-DS303F-S6A2E	ARK-DS303 A2, N270 w/ 160G HDD, 1G RAM
ARK-DS303P-S6A2E	ARK-DS303 A2 N270 w/ 1080P, 160G HD 1G RAM, HD decoder

## Installation Illustration



ARK-DS303 with standard mounting bracket



ARK-DS303 with WLAN module

## Power Cord & Specific Power Adaptor

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)

## Embedded S/W

Part Number	Description
2070009887	XPE WES2009 ARK-DS303 V4.0 ENG
2070009885	XPE WES7E ARK-DS303 V5.0 ENG
2070007911	XPE WES2007 ARK-DS303 Multi-24
2070010109	XPE WES2009 ARK-DS303P SignageLive v1.0 (20101103)

## Accessory

Part Number	Description
AMO-WIFI01E	WIFI 802.11 b/g/n mini PCIe module (w/ antenna)
AMO-WIFI02E	ARK-DS303 802.11 b/g USB WLAN module
AMO-HSDPA01E	HSDPA mini PCIe module (w/ antenna)

\* ARK-DS303 only have one slot of MiniPCIe; the miniCard type of the accessories only apply to ARK-DS303F