

# ARK-DS306

## AMD G-Series Fanless Digital Signage Player



### Features

- AMD G-series T40N (DC 1.0 GHz) + A50M FCH, 1 x DDR3 SODIMM, supports up to 4 GB
- DirectX® 11, 2D/3D acceleration, dual display: HDMI, VGA
- Built-in Mini-PCIe slot for easy expansion
- Supports 2 Gigabit LAN connectors, HD audio, 2 x COM, 2 x USB I/O interfaces
- Storage: 1 x 2.5" SATA HDD drive bay, 1 x CFast slot
- Supports VESA mounting (Optional)
- Supports WebAccess/IMM for intuitive signage content managing, remote monitoring and control

Acronis  Security

WISE-PaaS/RMM WebAccess/IMM iManager



### Introduction

The ARK-DS306 is powered by an AMD Embedded G-Series APU with the AMD A50M Fusion Controller Hub system chipset, and provides a power-efficient platform for high-performance multi-media content delivery. Based on this new APU platform, ARK-DS306 offers an outstanding visual experience with full multi-media capability, while maintaining very low power consumption. It is an excellent high performance solution for versatile digital signage applications.

### Specifications

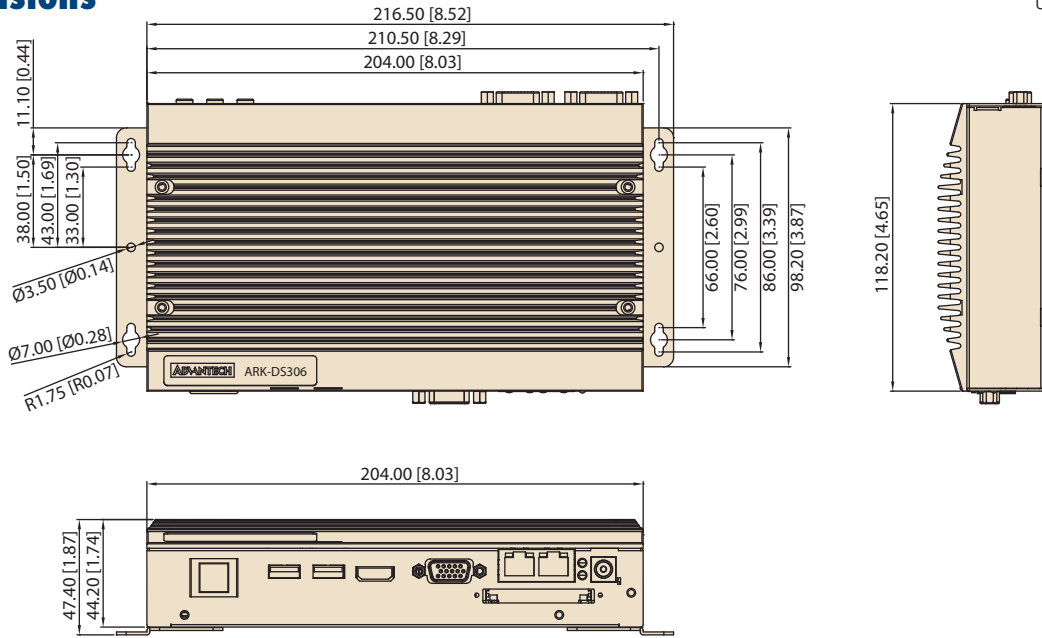
Processor System	CPU	AMD G-Series, T40N 1.0GHz dual core
	System Chipset	A50M FCH
	BIOS	AMI EFI 16 Mbit
Memory	Technology	1 x DDR3 204-pin SODIMM
	Max. Capacity	**4 GB
Display	Chipset	AMD G-Series
	Graphic Engine	DirectX 11 graphics with UVD 3.0 2D Acceleration, 3D Acceleration, Motion Video Acceleration, Supports DVD, Blu-ray*
	Output	HDMI x 1, VGA x 1
	Resolution	VGA: 1920 x 1080 at 60 Hz HDMI: Supports 1920 x 1080p at 60 Hz, 36 bpp, Supports HDMI v1.3, using TMDS data encoding
	Dual display	Yes
Storage	SATA	1 x 2.5-inch SATA II HDD/SSD (support 9.5 mm / 7 mm height)
	Cfast (socket)	1
Ethernet	Interface	2 Gigabit LAN Controller Realtek RTL8111E-VB-GR 10/100/1000Mbps
	Connector	2 x RJ-45
Audio	Chipset	Realtek ALC892, High Definition Audio (HD)
	HDMI	1
I/O Interface	VGA	1
	LAN	2 (RJ-45)
	USB	2 (USB 2.0 compliant)
	Audio	Line-in, Line-out, Mic-in
	Serial	2 x COM (RS-232)
	Mini-PCIe (Internal)	1 (for optional expansion modules)
	Power input	1 (DC-in Jack)
	Management	ACPI 2.0
	Power Requirement	Power Consumption
Input Voltage		12V DC-in (ATX/AT mode, default ATX)
Others		Supports boot on power back and schedule boot up function
Watchdog Timer		Output: Interrupt, system reset Interval: 255 levels timer interval, programmable by software
Physical Characteristics	Mounting	Easy mounting kits for LCD or Plasma
	Dimensions (W x H x D)	204 x 44.2 x 118.2 mm
	Weight	1.1 kg
Environment	Operating Temperature	Operating: 0 ~ 40° C (32 ~ 104° F) (w / HDD); 0 ~ 50° C (32 ~ 122° F) (w / CFast Card)
	Relative Humidity	95% @ 40° C (non-condensing), Operating
Software Development Kit	Operating System	Supports Microsoft Windows 8, Windows 7, XP with SP3, XP Embedded
	EWf & WDT SDK	EWf and WDT libraries for signage stability design in XPE
	Linux	supported by project
Certifications	Electromagnetic Safety	CE/FCC Class A, CCC, BSMI UL, CB, CCC, BSMI

\* Playback is supported by software not provided by Advantech.

\*\* 4GB 512x8 DRAM is not recommended to use.

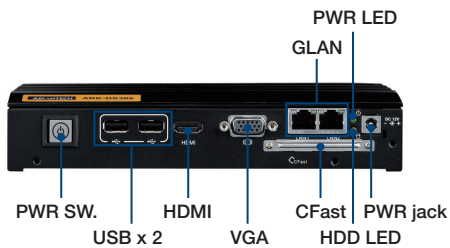
## Dimensions

Unit: mm [inch]



## ARK-DS306 External I/O

Front



Back



## Packing List

Part Number	Description
-	1 x ARK-DS306 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

## Embedded OS

Part Number	Description
2070010844	XPE WES2009 V4.0 Multi-24
2070011381	WES7E, 32-bit, EN/JP/TC/SC
2070012523	WES7P, 32-bit, EN/JP/TC/SC
2070012483	WE8S, 32-bit, EN/JP/TC/SC

## Ordering Information

Part Number	Description
ARK-DS306B-D0A1E	ARK-DS306 Barebone
ARK-DS306F-D0A1E	ARK-DS306, AMD T40N, 2G RAM, 500G HDD

## Accessories

Part Number	Description
AMO-WIFI06E	Wi-Fi 802.11 b/g/n Mini-PCIe module (w/ antenna)
AMO-HSDPA02E	3.75G HSDPA Mini-PCIe module
AMK-V001E	VESA mount kit
AMK-V002E	VESA mount kit for ARM
AMK-V005E	VESA mount kit (Generic for ARK-DS/DS products)

## 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)