

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 iManager, SUSIAccess for Signage and Embedded Software APIs

Acronis McAfee susiAccess 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.

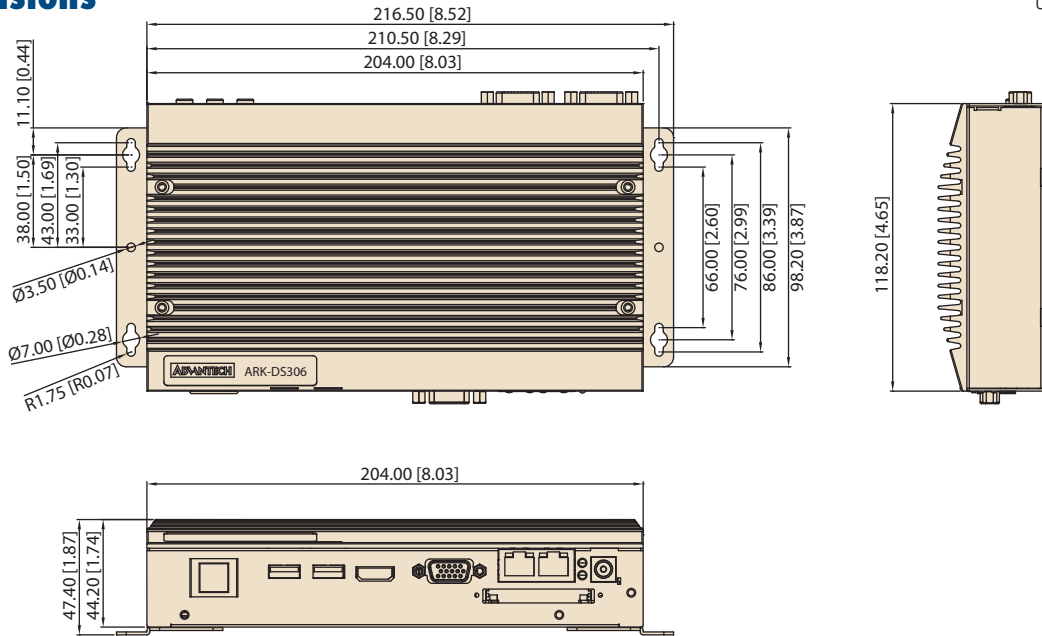
Specifications

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	Max. up to 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)
I/O Interface	HDMI	1
	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)
Power Requirement	Management	ACPI 2.0
	Power Consumption	Typical: 9 W (w/o expansion) Max.: 13W (w/o expansion)
	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	Linux Fedora 14
Certifications	Electromagnetic	CE/FCC Class A, CCC, BSMI
	Safety	UL, CB, CCC, BSMI

* Playback is supported by software not provided by Advantech.

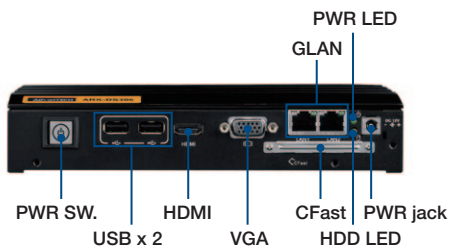
Dimensions

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

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)

Ordering Information

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

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)