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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 

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

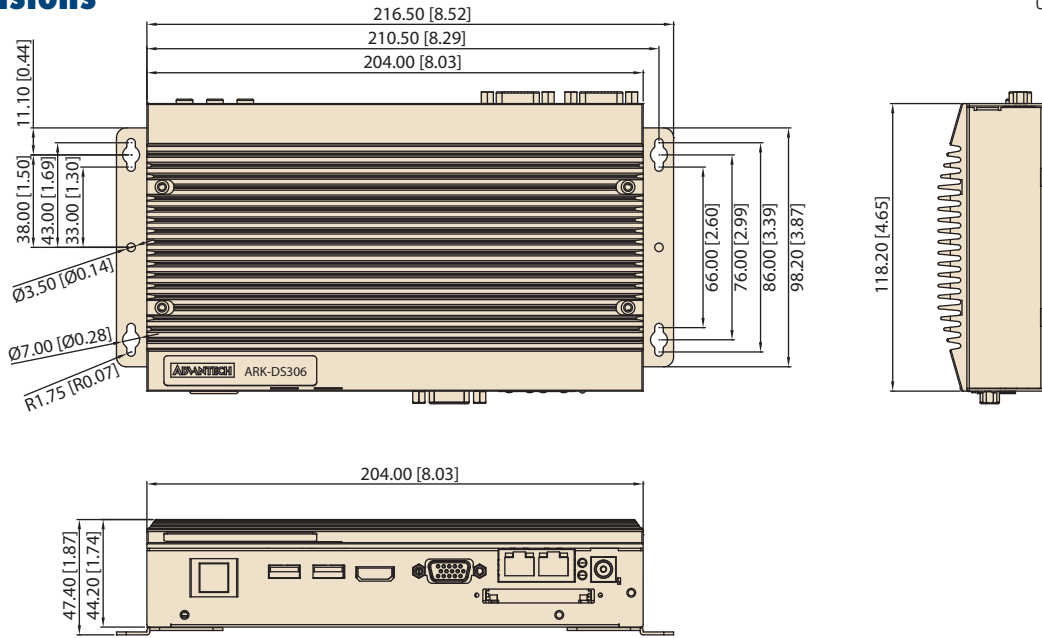
| | | |
|--------------------------|------------------------|---|
| Processor System | CPU | AMD G-Series, T40N 1.0GHz dual core |
| | System Chipset | A50M FCH |
| | BIOS | AMI EFI 16 Mbit |
| Memory | Technology | 1 x DDR3 204-pin SODIMM |
| | Max. Capacity | **4 GB |
| Display | Chipset | AMD G-Series |
| | 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.

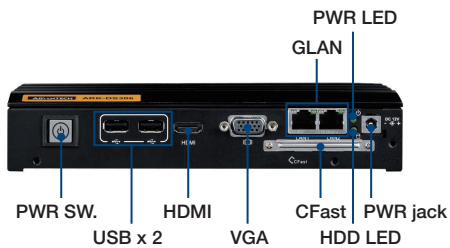
Dimensions

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 | WES8, 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) |