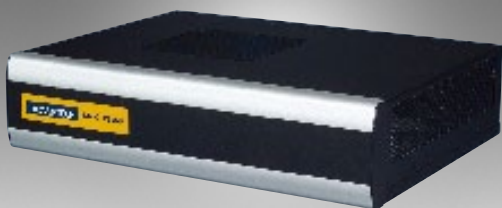


ARK-DS350(AM3)

High Performance Graphics Digital Signage Platform

NEW



Features

- AMD RS780E+ SB710 platform with selection of value and high-end AMD CPU, up to Full HD (1080P)
- Integrated ATI Radeon™ HD 3200 chip provides excellent graphics and DirectX® 10 high definition hardware video decode
- 128 MB of dedicated DDR3 video memory on board
- Two HDMI (1 x full-function; 1 x video only) and 1 VGA, supports dual displays
- Built-in Mini PCIe slot for easy expansion e.g. WiFi, TV-tuner
- Maximum 8 x USB 2.0 (External 4 + Internal 4), 2 x COM (Internal 1 x COM)



Tested by the following software partners:



Specifications

Processor System	CPU	AMD CPU Athlon II XL V66C 2.8Ghz or Sempron single core equipped
	System Chipset	AMD 780E + SB710
	L2 Cache	2 MB (depends on CPU Type)
	BIOS	AMI 8 MB SPI BIOS
Memory	Front Side Bus	HT3.0
	Technology	2 x DDR3 204 pin SO-DIMM
	Max. Capacity	Default 2GB, max. up to 4GB
Display	Chipset	AMD 780E, integrated ATI Radeon HD 3200 graphics
	Memory Size	Shared system memory up to 512 MB, built in DDR3 128MB side port memory
	Resolution(Chipset support)	CRT 2048x1536 @85 for 4:3 format (Max Resolution)
		2560x1440 @75 for 16:9 format (Max Resolution)
		2456x1536 @60 for 4:3 format (Max Resolution)
	Output	HDMI up to 1080P (Max Resolution)
Storage	Dual display	HDMI x 2, VGA x 1
	Video format	Any 2 display outputs simultaneous
	SATA	UVD 2.01, HD codecs MPEG-2, H.264/AVC MPEG-4 and VC-1
	CF	Default 2.5" SATA HDD, 160GB (9.5 mm height only)
Ethernet	Interface	CompactFlash socket for type I/II
	Controller	Gigabit LAN Controller
IO Interface	Connector	Realtek RTL8111D
	HDMI	2 x RJ-45
	VGA	2 HDMI 1.3a (HDMI 1 audio output is through SPDIF port)
	LAN	1 (D-sub 15-pin)
	USB	2 (RJ-45)
	Audio	4 (USB 2.0 compliant)
	Serial	1 audio connector with Line-out, Mic-in, Line-in phone jacks
	Mini-PCIe (Internal)	1 x COM (RS-232)
	Power input	1 (for optional expansion modules)
	Power lock switch	1 DC jack
Power Requirement	Management	1
	Power Consumption Input Voltage	ACPI 2.0
	Input Voltage	Typical: 28 W (CPU is AMD Athlon II XL V66C 2.8 Ghz and w/o expansion)
	Other	Max.: 49 W (CPU is AMD Athlon II XL V66C 2.8 Ghz and w/o expansion)
Watchdog Timer	Output	19 V DC-in (ATX mode)
	Interval	Supports Boot on Power back and schedule boot up function
Physical Characteristics	Mounting	Interrupt, system reset
	Dimensions (W x H x D)	255-level timer interval, setup by software
	Weight	Easy mounting kits for LCD or Plasma
Environment	Temperature	250 x 60 x 195 mm
	Relative Humidity	2.0 kg
	Vibration Resistance	0 ~ 40° C (32 ~ 104° F), operating
		-20 ~ 70° C (-4 ~ 158° F), storage
Software Development Kit	Operating System	95% @ 40° C (non-condensing), Operating
	EWF & WDT SDK	0.5Gms, IEC 60068-2-64, Random 5-500Hz, 1hr/axis
	Linux	Supports Microsoft Windows 7, XP with SP3, XP Embedded
Certification	Electromagnetic	EWf and WDT library for signage stability design in XPE
	Safety	Linux Fedora 14
		CE, FCC
		UL, CB, CCC, BSMI

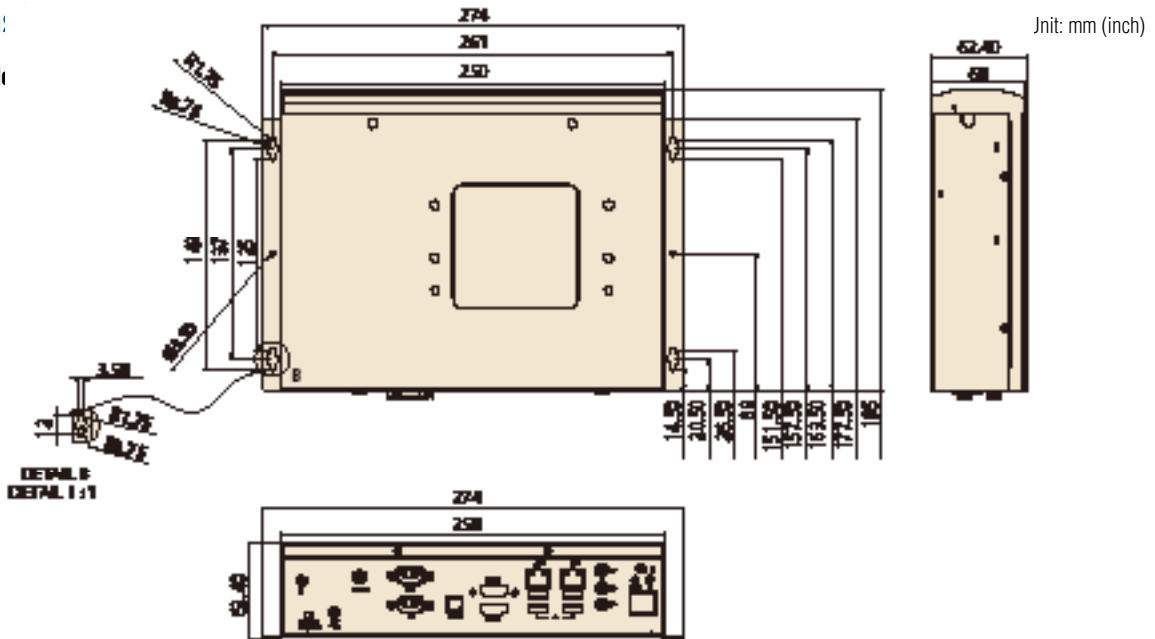
*Playback is supported by software not provided by Advantech

ADVANTECH

Embedded Signage Box

Dimensions

Regular Model



Packing List

Part Number	Description
-	1 x ARK-DS350 Unit
-	1 x Driver/Utility CD/Manual
-	1 x User Manual (Simplified Chinese)
-	1 x China RoHS
-	1 x Adapter AC 100 ~ 240 V 90 W/19 V PFC
-	1 x Mounting plate set

Ordering Information

Part Number	Description
ARK-DS350-U8B1E	ARK-DS350, AMD Athlon™ II XL V66C, VGA+ 2 HDMI, 2 GbE, 8 USB, 2 COM, Audio w/ 2 GB RAM+ 160 G HDD
ARK-DS350-U7B1E	ARK-DS350, AMD Sempron™ 140E, VGA+ 2 HDMI, 2 GbE, 8 USB, 2 COM, Audio w/ 2 GB RAM+ 160 G HDD
ARK-DS350-00B1E	ARK-DS350, barebone AMD 780E digital signage PC

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 (PSE for Japan)

SUSI API functions



GPIO



SMBus



Hardware
Monitor



I²C



Watchdog

*Fan Speed Control in HW monitor is not supported, please follow system default setting.

Embedded S/W

Part Number	Description
2070009891	XPE Image WES2009 ARK-DS350 B1 V4.0 ENG
2070010168	XPE WES2009 ARK-DS350 B1 V4.0 24MUI
2070009886	Win7 Embedded WES7E, ARK-DS350 V5.0 ENG

Peripherals for Configuration

CPU	96MPAA-2.8G-2MAM3T	AMD ATHLON II XL V66C 2.8GHZ
	96MPAMS-27P-1MAM3	AMD SEMPRON 140E 2.7GHZ
RAM	96SD3-2G1066NN-AP	2G SO-DDR3-1066 204PIN 128X8 ELP(G)
	96SD3-4G1066NN-TR	4G SO-DDR3-1066 204PIN 256X8 HYX(G)

Accessories

Part Number	Description
AMO-WIFI01E	WIFI 802.11 b/g/n Mini PCIe module(w/ antenna)