

ARK-DS350(AM3)

High Graphic Performance Digital Signage Platform

NEW



Features

- AMD RS780E+ SB710 platform with selection of value and high-end AMD CPU
- 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 full HD (1080p) and dual displays
- Built-in Mini PCIe slot for easy expansion e.g. WiFi, TV-tuner
- Supports 8 x USB 2.0 (External 4 +Internal 4), 2 x COM (Internal 1 x COM)



Introduction

Designed and built for digital signage applications, ARK-DS350 provides optimal graphic performance with advanced ATI Radeon™ 3200 graphics and DirectX 10 compliant hardware decoding. The on-board 128 MB of the dedicated DDR3 video memory can further optimize power saving and video decoding. ARK-DS350 delivers superior 1080p performance and can comfortably support dual channel video. ARK-DS350 offers 2 giga LAN ports, 4 USB, 1 COM, 1 VGA and 2 HDMI for dual display and S/PDIF for better audio experience, packed into a small rugged unit and powered by AMD Athlon™ II XL dual-core 2.8 GHz processor. A value option powered by an AMD Sempron single core 2.7GHz CPU is also available. Plus, an optional TV tuner, and WiFi module are available for system integration flexibility.

Specifications

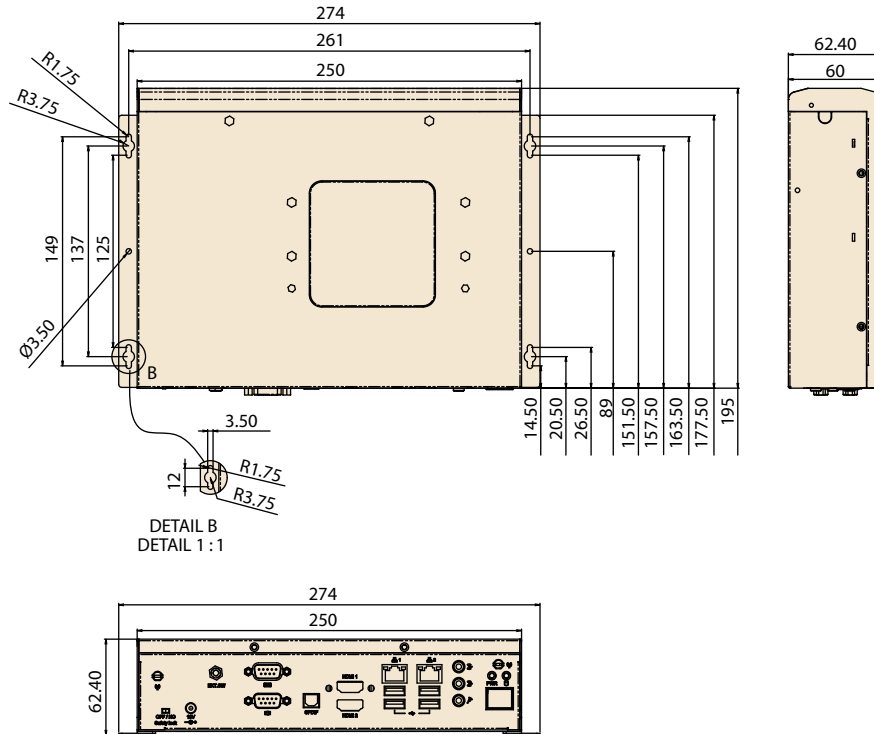
Processor System	CPU	Athlon™ II XL V66C 2.8 Ghz dual core/45W or Sempron™ single core
	Chipset	780E + SB710
	L2 Cache	2 MB (Athlon II XL V66C)* L2 cache depends on CPU's spec
	BIOS	AMI BIOS, 8Mbit SPI
	Front Side Bus	HT3.0
Memory	Technology	2 x DDR3 204 pin SO-DIMM
	Max. Capacity	Max. up to 4 GB
Graphics	Chipset	Integrated ATI Radeon™ HD 3200 graphics
	Memory Size	Shared system memory up to 512 MB, built in DDR3 128 MB side port memory
	Resolution	Max. resolution 2048 x 1536 @ 60 Hz
Storage	SATA	Default 2.5" SATA HDD, 160 GB
	CF	CompactFlash socket for type I/II
Ethernet	Interface	Gigabit LAN Controller
	Controller	Realtek 8111D
	Connector	2 x RJ-45
IO Interface	HDMI	2 HDMI 1.3a (HDMI 1 audio output is through SPDIF port)
	VGA	1 (D-sub 15-pin)
	LAN	2 (RJ-45)
	USB	8 (USB 2.0 compliant, 480Mbps; external 4 ports and internal 4 ports reserved)
	Audio	1 audio connector with Line-out, Mic-in, Line-in phone jacks
	Serial	2 x COMs (external x1 + internal x1 reserved)
	Mini-PCIe (Internal)	1 (for expansion)
	PSW	2nd Power Switch interface
	Power lock switch	1
	Management	ACPI 2.0
Power Requirement	Power Consumption Input Voltage	Typical: 28.88W (CPU is AMD Athlon™ II XL V66C 2.8 Ghz and w/o expansion) Max.: 49.78W (CPU is AMD Athlon™ II XL V66C 2.8 Ghz and w/o expansion)
	Input Voltage	19V DC-in (ATX 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)	250 x 60 x 195 mm
	Weight	2.0 kg
Environment	Temperature	0 ~ 40° C (32 ~ 104° F), operating -20 ~ 70° C, storage
	Relative Humidity	95% @ 40° C (non-condensing), Operating
	Vibration Resistance	0.5 Grms, IEC 60068-2-64, Random, 5-500 Hz, 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

*Playback is supported by software not provided by Advantech

Dimensions

Unit: mm

Regular Model



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+ 160G HDD
ARK-DS350-U7B1E	ARK-DS350, AMD Sempron™ 140E, VGA+ 2 HDMI, 2 GbE, 8 USB, 2 COM, Audio w/ 2 GB RAM+ 160G HDD
ARK-DS350-00B1E	ARK-DS350, barebone of 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)
1757002601	PSE certified power adaptor for Japan

Accessory

Part Number	Description
AMO-WIFI01E	ARK 802.11 b/g/n Mini-PCIe module
AMO-HTD01E	ARK DVB-T Hybrid TV Module (USB)

SUSI API functions



GPIO



SMBus



I²C



Watchdog



Hardware Monitor

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

Embedded S/W

Part Number	Description
2070009886	XPE WES7E ARK-DS350 V5.0 ENG
2070009891	XPE Image WES2009 ARK-DS350 B1 V4.0 ENG