DSA-2100A

Network Digital Signage Player

Features

- Content-rich presentation: plays video & audio, graphics, and text
- Updates contents & scheduling over network without disturbing foreground display
- Multiple display zones for maximum advertising efficiency
- Flexible scheduling capability
- Supports MPEG 1/2/4 and DivX 5.0 video format; JPEG and BMP graphics
- Supports 16:9 and 4:3 display in landscape or portrait mode
- Supports HDTV resolution; automatically scales up SD content to HD output
- Automatic Play-On-Power-Up
- Built-in internal storage with 40 GB hard disk drive
- Excellent reliability: fanless design with built-in dispersion to maintain low heat
- Wireless LAN support via external Wi-Fi solution

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Introduction

The Advantech DSA-2100A Series Network Digital Signage Player receives media content such as video, audio, graphics, and text via an IP network, then stores the content on its internal hard disk drive. The content is displayed according to either a pre-defined playlist or network commands. The DSA-2100A series features the most advanced decoder and graphic processor available. It outputs both digital and analog video signals for modern, high definition display devices: plasma and LCD screens, and projectors. The DSA-2100A is an ideal network digital content player for advertising, presentations, training and other media applications.

Specifications

Video	MPEG-1, MPEG-2 MP @ ML up to 14 Mbps, MPEG-4 ASP	
Audio	2 channels, MPEG-1 and MPEG-2 Layers I, II and III (MP3), 16-bit PCM, bit rate up to 384 kbps, sample rate up to 48 kHz	
Graphics	32-bit color with transparency BMP, JPEG	
Text	Variable scrolling speed and position	
Playlist	Scheduling playback, endless loop playback, auto play after power on	
Inputs and Outputs		
Video Outputs	DVI digital and analog	1 x VESA DVI-I connector, up to 720p HD, 1280 x 720 @ 60 Hz
	Composite	1 x BNC
	S-Video	1 x Mini-DIN 4-pin connector
Audio Output	R/L channel analog	2 x Unbalanced stereo RCA jack
Network	10/100 Mbps	1 x RJ-45
Serial Port	RS-232C	1 x D-sub 9-pin (male)
USB	USB 2.0 Host	2 x USB Type A connector
Network Protocol	Supports HTTP, DHCP	
System		
Internal Storage	40 GB 2.5" HDD	
Dimensions (W x H x D)	228 x 44 x 110 mm (9" x 1.7" x 4.3")	
Weight	Approx. 1.2 kg	
Power Consumption	Approx. 8 W	
Power	12 V DC input	
Operating Temperature	0 to 40° C, Humidity 5 ~ 85% @ 40° C	

Ordering Information

Part Number	Descriptions
DSA-2100A	Active-mode Network Digital Signage Player

Features and Benefits

Rich Content Presentation & Maximum Advertising Efficiency

Advantech's DSA-2100A Digital Signage solution supports MPEG 1/2/4, DivX 5, MP3 and other formats for video & audio, and JPEG and BMP formats for graphics. Scrolling text displays multiple languages. Advantech offers user-definable layout templates with up to 7 zones of display to deliver maximized advertising efficiency for our customers.
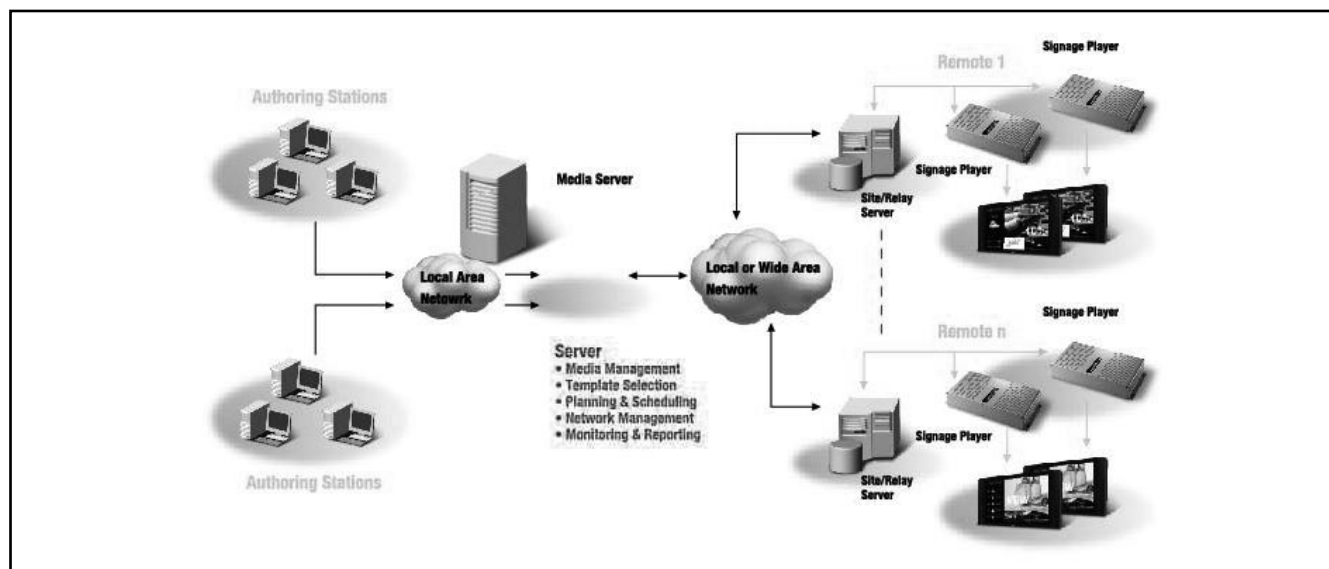
Advanced Playback

	Via Composer	Via Software Development Kit
4:3 Aspect Ratio	640 x 480, 800 x 600, 1024 x 768	640 x 480, 800 x 600, 1024 x 768, 1280 x 1024*
16:9 Aspect Ratio	1280 x 720 (720p)	848 x 480, 1024 x 576, 1280 x 720 (720p), 1366 x 768*
TV Signal	PAL, NTSC	PAL, NTSC

Note*: Maximized layout resolution that DSA-2100A can support is 1024 x 768 (4:3) and 1280 x 720 (16:9); use Advantech Configurator to scale up the signal resolution to 1280 x 1024 (4:3) and 1366 x 768 (16:9). Portrait mode requires pre-rotated contents.

Optimized Internal Storage Utilization and Content Management

The DSA-2100A is equipped with a 40 GB hard disk drive which can store up to 18 hours of compressed video at 4 Mbps. Playback, operation, and transmission logs and reports are available to support client billing and error-tracking.

System Configuration

I/O Ports