



# Digital Signage Display Board

## MPD-6100



### Overview:

Spectrah MPD-6100 series Digital Signage Display Board is a dual functional controller board which integrates new generation of digital media processor and also LCD panel controller together. It is ideal for media display applications like digital signage or information terminal. MPD-6100 series provides HD resolution for video playback, excellent display quality, ease of use, cost efficient solutions, and supports various video playable formats for various applications. The onboard Digital Media Processor is a new generation of high performance audio/photo/video decoder for playback of high definition and high resolution photos, high quality music, and high bitrate videos from flash memory cards, hard disks, and USB storage devices.

### Specifications:

#### ADC Controller

- Genesis Scaler chip
- Adaptive color and contrast enhancement (Genesis ACC & ACM-II features)
- 8-bit triple-channel ADC/PLL
- Scaling engine
- OSD controller
- Hue / Saturation / Brightness / Contrast / Color temperature adjustment

#### Digital Media Processor

- High performance audio / photo / video engine
- HD component output for 720P JPEG display
- Scaler for video up-conversion to 720P
- Pixel adaptive de-interlacer
- 2 channel stereo audio DAC
- Support ESS Music and Photo Slideshow application

#### Storage Device Interface

- Dual USB 2.0 host ports
- 1 Compact Flash II socket for CF-II card
- 1 IDE 44-pin connector for IDE hard disk
- 4-in-1 socket for MS / MMC / SD / XD cards (Optional)

#### Audio Output Port

- Phone jack stereo output connector
- Support audio amplifier and volume control

#### On Screen Display (OSD) in Scaler

- Auto setup
- Brightness / Contrast adjustment
- ACC/ACM-II color enhancement & Contrast adjustment
- Image V-Position / H-Position adjustment
- Auto color reset / Standard color setup
- Hue / Saturation / Color temperature adjustment

#### Panel Support

TFT LCD from VGA resolution up to SXGA resolution

#### Power In Support

LCD Panel: +12V, +5V +3.3V  
Backlight Inverter: +12V, +5V, +3.3V

#### Playable Format Support

JPEG, TIFF, BMP  
MP3 audio  
MPEG1, MPEG2, MPEG4 SP, MPEG4 ASP, Divx 3.X/4.X/5.X

#### IR Remote Control

Multi-button control for operation of media player in 10 meters

#### Content Playback Table

The following table describes the media playable format MPD-6100 supports.

Content / Card	Minimum	Maximum	MS / Pro	MMC	SD	XD	CF	HDD
JPEG, TIFF, BMP	16x16	5120x3840	YES	YES	YES	YES	YES	YES
MP3	32K bps	256K bps	YES	YES	YES	YES	YES	YES
MPEG1			YES	YES	YES	YES	YES	YES
MPEG4 SP		QVGA/CIF	YES	YES	YES	YES	YES	YES
MPEG4 ASP		D1	NO	NO	<100KB	<100KB	<250KB	YES
Divx 3.x/4.x/5.x		D1	NO	NO	<100KB	<100KB	<250KB	YES
MPEG2		D1	NO	NO	NO	NO	NO	YES

#### Board Dimension

Board Dimension: 190 (L) mm x 120 (W) mm  
Weight: 170g

### Ordering Information:

- MPD-6100 (Audio, Video, DVI digital, TTL & LVDS output)
- MPD-6102 (TBD)

### Spectrah Dynamics, Inc.

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