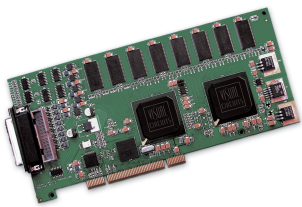




Gemini 1



Gemini 2

Applications

Events and Entertainment
Healthcare
Hospitality
Retail

Gemini Universal Media Cards from Focus Enhancements push the typical boundaries of standard decoder cards. With the Gemini family, you'll have the flexibility you need to meet and exceed your digital media integration requirements.

Gemini Universal Media Cards

Whether you're producing digital content for an interactive application or a full-motion video display, the Gemini Universal Media Cards bring your work to life in vibrant, accurate color. With its ability to process high-resolution, 32-bit graphics and video simultaneously—including still, full-motion, and standard- or high-definition video—Gemini delivers the power and flexibility you need. In addition, its 16:9 aspect ratio is perfect for plasma displays used in high-definition digital signage applications.

Both Windows and Linux drivers are available for Gemini, along with a complete C programming library that includes sample source code and function calls. In addition, the Gemini 2 card provides backward-compatibility with the Gemini 1 card, making it easy to integrate existing applications when you upgrade.

Models

Gemini 1 Universal Media Card

With the Gemini 1 Universal Media Card, you can support single-channel high-definition MPEG-2 hardware decoding and blend 32-bit graphics with digital sound simultaneously.

Gemini 2 Universal Media Card

With the Gemini 2 Universal Media Card, you can support two independent channels of MPEG-2 for standard- and high-definition hardware decoding and get outstanding visual clarity and digital sound.

Support

When you purchase digital signage solutions from Focus Enhancements, you not only receive reliable products that deliver superior performance every day, but you also receive unconditional service and support from a team of seasoned video professionals. All products are backed by comprehensive warranties and optional support contracts that cover installation, training, 24/7 phone support, and priority parts replacement.

Consultation

With extensive experience in designing, configuring, and integrating digital signage solutions for leading organizations around the world, the Focus team can help you select the right products for your needs. If you have special requirements, solution consultation and custom configuration services are available.

Technical Specifications

| MODELS | Gemini 1 | Gemini 2 |
|---------------------------|---|--|
| Digital Video Decoding | MPEG-2 unencrypted DVD (.vob) files; decodes main profile at main level and main profile at high level; MPEG-2 streams (ISO/IEC 13818-1); decodes transport, program streams, and elementary streams; decodes all 18 ATSC formats up to 1920 x 1080p; data rate up to 45 Mbps; 16:9, 4:3, 5:4 aspect ratios; 4:2:2 and 4:2:0 decoding | |
| Video Format Conversion | Advanced up-scaling provides HD (1920 x 1080) resolution from standard-definition inputs; 4-tap horizontal and vertical filters; HD (ITU 709) to SD (ITU 601) bidirectional color format conversion; adaptive de-interlacing; flicker filtering | |
| Video Output Format | NTSC, PAL; 1920 x 1080i at 59.94, 60 fields/second; 1920 x 1080p at 60 frames/second; 1280 x 720p at 59.94, 60 frames/second; 720 x 576p at 50 frames/second (PAL); 720 x 576i at 50 fields/second (PAL); variable aspect ratios | |
| Video Output | Composite video outputs; RGBHV or component (PbPrY); composite; DVI-D, HDCP encryption optional Connectors: DVI-D and 15-pin HD-sub | 2 composite video outputs per channel (total of 4); RGBHV or component (PbPrY); 25-pin D-sub for A/V breakout |
| Advanced Video Processing | 32-bit OSD; 256-level transparency; 32-bit high-resolution (up to 1920 x 1080); independent scalers for video and overlays | |
| Audio Processing | High-quality audio and video synchronization; 5.1 digital audio (external AC-3 decoder required); two-channel analog audio output on board; MPEG-1 Layers I, II, III; 12-bit video DACs for accurate, low-noise performance | |
| Audio Bit Rates | MPEG-1 Layer I: 32-448-448 kbps; MPEG-1 Layer II: 32-384 kbps; MPEG-1 Layer III (MP3): 32-320 kbps | |
| Audio Sample Rates | MPEG-1 Layer I and II: 32, 44.1, 48 kbps; MPEG-1 Layer III: 16, 22.05, 24, 32, 44.1, 48 kbps | |
| Audio Output | S/PDIF digital audio output (IEC 60958); stereo analog | |
| Software | Complete C programming library with sample source code and function calls; backward-compatible API to ease integration with existing applications developed for Focus Enhancements cards. | |
| System Requirements | OS: Windows, Linux Processor: Intel 600 MHz or equivalent (1 GHz or higher recommended); memory: 256MB minimum; HDD: Ultra ATA/66 or better | |
| Dimensions | Half-size PCI card; PCI v2.1 interface; Universal (5 or 3.3v 32-bit or 64-bit slot) PCI connector | Three-fourths (3/4) size PCI card; PCI v2.1 interface; Universal (5 or 3.3v 32-bit or 64-bit slot) PCI connector |

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