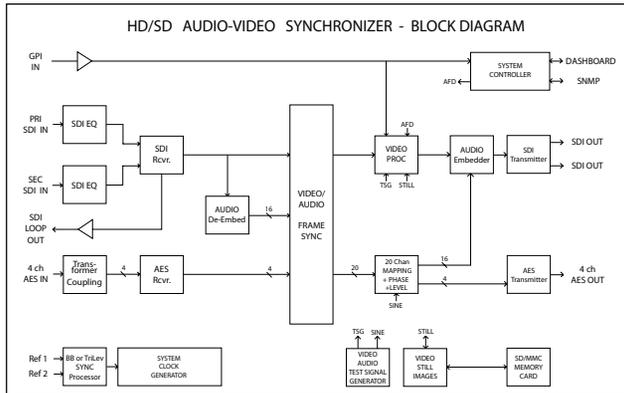


Specifications



Video Processing

Signal: HD - 1.485Gb/s (SMPTE 292M)
SD - 270Mb/s (SMPTE 259M)

Inputs: 2 BNCs, 75ohm, 800 mVpp
HD - Auto EQ to 100 meters (Belden 8281)
SD - Auto EQ to 280 meters (Belden 8281)

Output: 2 BNC's, 75ohm, 800 mVpp
HD Timing Jitter < 0.3UI
SD Timing Jitter < 0.2UI

Formats: 1080i-60/59.94/50
1080p-F-24/23.98
720p-60/59.94/50
483i-59.94
576i-50

Resolution: 10 bit, 4:2:2

Audio Processing

Signal: Embedded, AES/EBU
SD (SMPTE 272C)
HD (SMPTE 299M)

Inputs: 2 BNCs, 75ohm Transformer coupled
Outputs: 2 BNCs, 75ohm Transformer coupled
Sample Rate: 48KHz-synchronous
Resolution: 24 bit

Genlock Reference

Signals: Bi-Lev (Black Burst) , Tri-Level
Inputs: 2 BNC loops, Hi-Z, on Frame

Control

GPI Input: BNC, internal pullup
Activates on closure to ground

Remote Input: RJ-45 Ethernet connector on Frame
Software: Dashboard

Memory Card

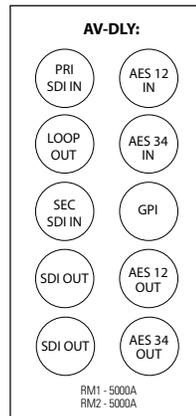
Type: MMC, SD, SDHC

Power

10 Watts

Warranty

5 years parts and labor



California Media Engineering (Cal Media) is an active participant in the openGear consortium, manufacturing openGear platform cards that may be mixed and matched with a multitude of other vendors' cards providing powerful and customizable solutions. The founders of Cal Media Engineering have many years of experience designing and manufacturing professional audio/video analog and digital equipment used in film, television/radio broadcast, video production and post production. Cal Media Engineering brings a proven track record of excellent service and matching its customers' needs with the right product features.

For more information, please visit our website at www.calmedia.com.

Additional openGear Cards:

5000 HD/SD Audio-Video Delay System

Concerned about wardrobe malfunctions, obscenities, or extreme violence being broadcast? Do you need a powerful solution for large video displays used in stadium or concert settings that need to be synchronized with delayed audio? The 5000 has proven to be a successful, low cost answer for all of these problems and more. From live events being broadcast on major networks, to live concerts featuring major superstars, Cal Media Engineering has been the chosen solution.

5200 High Performance Analog-to-Digital Converter

Cal Media's 5200 openGear card is a professional broadcast quality HD/SD analog-to-digital converter with an audio embedder and full frame synchronizer. Engineered for high performance, the analog front end utilizes advanced video filtering and professional audio processing. The 5200 uses 12-bit 4:4:4 video conversion and 24-bit audio conversion.



5010 HD/SD AV SYNC+



Features:

- Audio/Video full frame synchronizer
- Second SDI input with auto switch
- Auto freeze on loss of input
- AFD code inserter
- Passes all VANC data including closed captions (608/708) and time code
- Audio embedding/de-embedding with full channel mapping feature
- Video proc amp/color corrector/legalizer
- Individual audio level and phase adjustments
- Test pattern generator (20+ patterns)
- Test tone generators
- Image storage and retrieval through SD/MMC memory card interface

**Multiple products in one card
for one price!**



About the 5010

The 5010 is a professional broadcast audio/video full frame synchronizer for high definition and standard definition signals. Audio embedding and de-embedding are standard features along with proc amp controls, color correction, test signals, still capture and storage.

Synchronization

The 5010 is designed to re-time digital video and audio signals to a local black burst or tri-level sync reference. Asynchronous inputs will produce an occasional drop or repeated frame at the output in order to maintain synchronization. The video delay will vary from 3 lines to 1 frame.

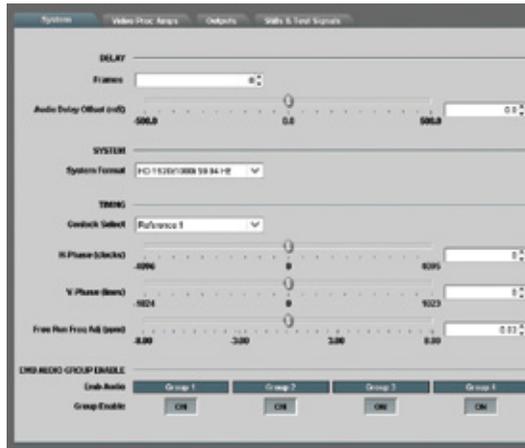
Video Processing

The 5010 has two auto equalized SDI inputs. These inputs may be configured as a 2-1 switch, or as an auto failsafe switch. Proc amp controls are provided for adjusting the input video's brightness, contrast, saturation and hue. All vertical ancillary data (VANC), including Closed Captions (CEA-608/708) are passed through the synchronizer.

Audio Processing

All 16 embedded audio channels are de-embedded and synchronized independent of the video. Four AES audio inputs are also separately synchronized for a total of 20 channels. These channels (plus 4 tone generators) are

all available for mapping into any of the output AES or SDI embedded channels. Any source may be selected for any output channel, including one source feeding multiple output channels. The mapping function also provides individual level adjustment and phase control for all output channels.



Additional Features

- Still image storage and retrieval through SD/MMC memory card interface
- Fast and easy firmware updates through SD/MMC memory card interface
- Five year warranty



About openGear

openGear is supported by an ever growing consortium of vendors supporting a single platform. The openGear 2RU frame is configurable with redundant power supplies and a capacity for up to 20 hot swappable openGear cards. Powerful ethernet-based remote control and monitoring capability is provided through the free JAVA-based Dashboard™ software that runs on Mac™, Linux®, or Windows™ platforms.

Cal Media Engineering cards may be mixed and matched with a multitude of other vendors' cards providing your own powerful and customizable solutions.

Dashboard™ is a registered trademark of Ross Video Ltd.

Mac™ is a registered trademark of Apple Inc.

Linux® is a registered trademark of Linus Torvalds in the US and other countries

Windows™ is a registered trademark of Microsoft Corp.

