

Video Input/Output, 4-Channel G2-Video-420-xx

Features

- 4-Channel Video and Audio Input and Output
- Occupies Single PCI Card Slot
- Supports Up to 4 Video Inputs of NTSC or PAL
- Supports IRIG 106 Chapter 10 Formats



Introduction

The G2 Video Input/Output board provides video-to-digital decoding along with its digital-to-analog encoding feature set to meet IRIG-106 Chapter 10 requirements. The analog output with microsecond reconstruction fidelity is combined with Chapter 10 counters to provide high-speed operation with precise time tagging support.

NTSC and PAL Encoding

The G2-Video card supports both PAL and NTSC input along with an option for SECAM. Also encoded with the video is left and right audio, which is formatted per IRIG-106 Chapter 10.

Formatting

Chapter 10 Format 0 is supported for both video and audio when encoded per IRIG 106 Chapter 10. The video/audio bit stream is encoded to MPEG-2.

Channel Subsampling

Each channel is independently programmed in order to support varying degrees of video encoding from low (1 Mbps) to high (15 Mbps).

Data Reproduction

The card buffers data and can faithfully reproduce analog video data to within 40 milliseconds of interchannel time skew relative to other recorded channels.

By occupying a single PCI bus card slot, the PCI analog-to-digital decoding, along with its digital-to-analog encoding record/reproduce board, provides remarkable flexibility for IRIG 106 Chapter 10 Recorders in the laboratory environment.

Analog-to-Digital Input (Video Decoding)	Number channels	Four independent video/audio data channels
	Programmability	Each input video channel independently programmed for rate
	Levels	PAL and NTSC composite video signal levels
	Operating Range	Temperature 0° - 50 °C (32 °F - 122 °F) Humidity 0% - 90%, noncondensing
Digital-to-Analog Output (Video Encoding)	Number of Channels	Four independent data channels
	Programmability	Each analog video output channel programmed from the recorded file
	Levels	PAL and NTSC composite video signal levels
	Operating Range	Temperature 0° - 50 °C (32 °F - 122 °F) Humidity 0% - 90%, noncondensing
Processing		MPEG-2 MP@ML transport stream with audio
		Constant and variable bit rates from 1 Mbps to 15 Mbps
	PAL @ 25 FPS	1M, 2M, 3M, 4M, 5M, 6M, 7M, 8M, 9M, 12M, and 15 Mbps 352 x 288, 352 x 576, 704 x 576, 720 x 576, 544 x 576, 528 x 576, and 480 x 576
	NTSC @ 29.97 FPS	1M, 2M, 3M, 4M, 5M, 6M, 7M, 8M, 9M, 12M, and 15 Mbps 352 x 240, 352 x 480, 704 x 480, 720 x 480*, 640 x 480, 544 x 480, 528 x 480 and 480 x 480 *720 x 480 not supported at 1 Mbps
Ordering Codes	G2-VIDEO-420-01	NTSC Video Input/Output, 4-Channel
	G2-VIDEO-420-01-SWDRVR-PBO	NTSC Video Input/Output, 4-Channel, Software Driver, PBO

Specifications change w/o notice. Contact the factory for current information.