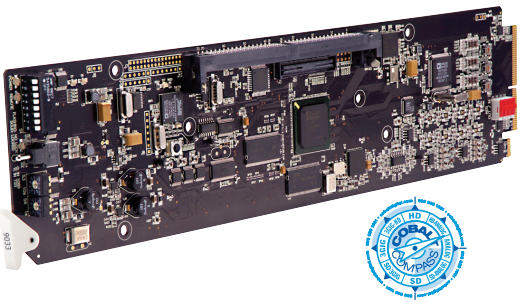
COBALT

9033 » INPUT PROCESSING ANALOG TO DIGITAL VIDEO
with Audio Embedding

OPTIONS_
Dolby® Digital/E Decoding (+DEC), Audio Mixing (+AMx), Loudness Metering (+LM-C), Linear Acoustic® Upmixing (+UM) 9033-SD SD Only 12-bit Analog to Digital Video Converter with Audio Embedding

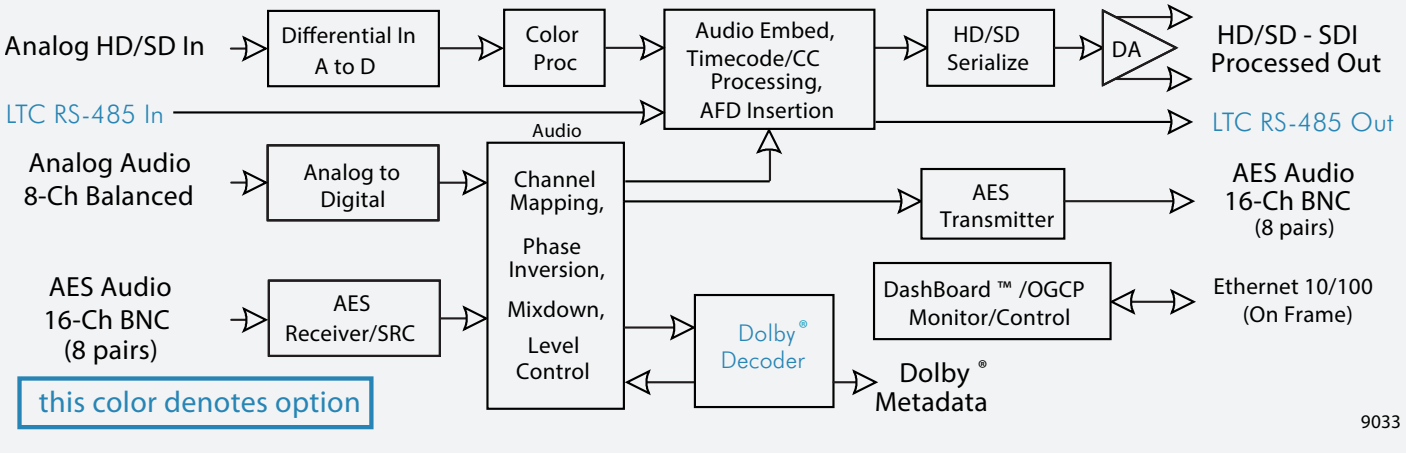


The 9033 provides analog-to-SDI conversion for HD and SD sources, with 12-bit conversion bit depth. Additionally, the 9033 provides audio embedding with a crosspoint that accepts up to 16 channels of discrete AES audio, and up to 8 channels of balanced analog audio.

The 9033 allows AFD code insertion, closed captioning and timecode insertion from VITC waveform (SD). The 9033 includes full video processing control with user memory and audio routing controls. Factory presets enable a return to factory settings.

» FEATURES

- HD/SD analog to SDI conversion
- Differential analog video inputs for power hum rejection
- 5-Line adaptive comb filter for SD-Composite mode
- Video processing controls
- Analog and AES audio inputs and AES output
- Timecode conversion from SD VITC waveform to SD ATC_VITC. +LTC option accommodates LTC timecode input from balanced analog audio, AES, or RS-485 deck/playout sources, with HD/SD insertion/conversion to VANC waveform or packet-based VITC/LTC SDI formats
- Audio embed adaptive SRC allows asynchronous 48 kHz AES audio to automatically sync with card 48 kHz timing for glitch-free AES embedding
- 24-bit analog audio conversion
- 24-bit audio embedding
- Audio channel mapping, dowmixing, and level control
- HD/SD closed captioning support and flexible timecode processing
- AFD code insertion
- Dolby® Digital/E Decoder option with metadata output
- 16 user presets
- Remote control/monitoring via DashBoard™ software or OGCP-9000 control panel
- Five year warranty



» ORDERING INFORMATION

9033 HD/SD 12-bit Analog to Digital Video Converter with Audio Embedding

9033-SD SD Only 12-bit Analog to Digital Video Converter with Audio Embedding

RM20-9033-A 20-Slot Frame Rear I/O Module (Standard Width) Analog Video Input, 4 AES In/Out BNCs, and 2 SDI Output BNCs

RM20-9033-B 20-Slot Frame Rear I/O Module (Standard Width) Analog Video Input, 4 Analog Audio Inputs, and 2 SDI Output BNCs

RM20-9033-C 20-Slot Frame Rear I/O Module (Double Width) Analog Video Input, 2 AES In BNCs, 4 AES In/Out BNCs, 8 Analog Audio Inputs, and 2 SDI Output BNCs

RM20-9033-D 20-Slot Frame Rear I/O Module (Double Width) Analog Video Input, 4 AES In BNCs, 4 AES In/Out BNCs, 6 AES Out BNCs, and 2 SDI Output BNCs

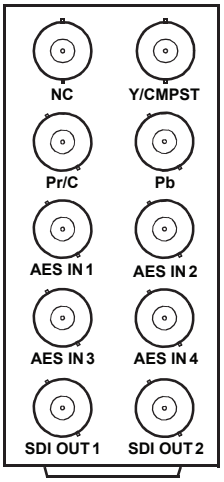
RM20-9033-E-DIN 20-Slot Frame Rear I/O Module (Standard Width, High-Density) Analog Video Input, 4 AES In, 4 AES In/Out, 6 AES Out, and 2 SDI Output (all connectors DIN1.0/2.3)

RM20-9033-E-HDBNC 20-Slot Frame Rear I/O Module (Standard Width, High-Density) Analog Video Input, 4 AES In, 4 AES In/Out, 6 AES Out, and 2 SDI Output (all connectors HDBNC)

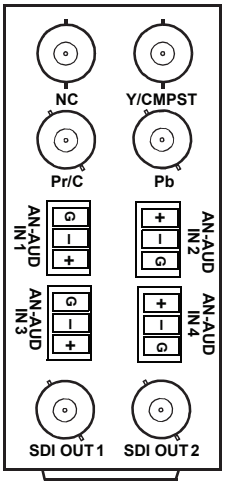
RM20-9033-F 20-Slot Frame Rear I/O Module (Double Width) Analog Video In, 4 AES In/Out BNCs, 8 Analog Audio In, RS-485 LTC / Metadata I/O Port, and 2 SDI Output BNCs

AFD READY openGear DashBoard LINEAR ACOUSTIC DOLBY

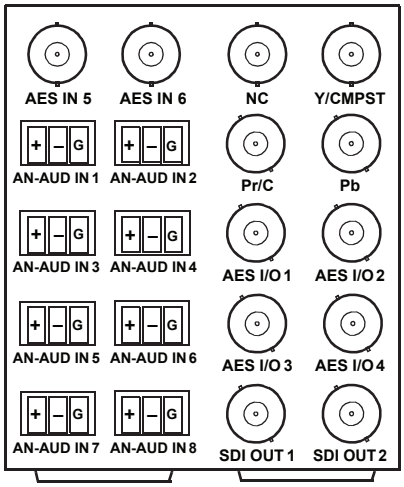
9033



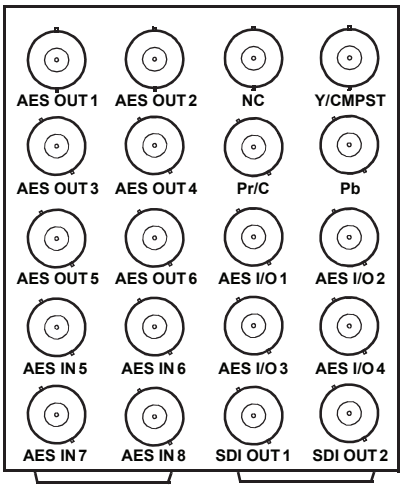
RM20-9033-A



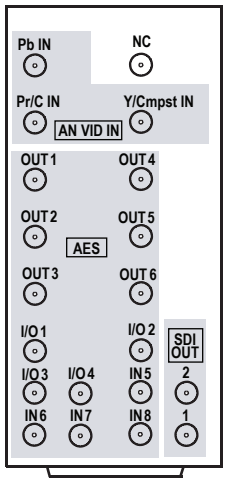
RM20-9033-B



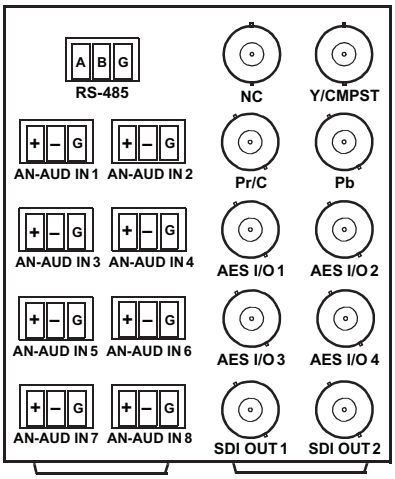
RM20-9033-C



RM20-9033-D



RM20-9033-E-DIN-HDBNC



RM20-9033-F

SPECIFICATIONS

Electrical

Power:	12 watts
Power (Dolby® +DEC Option):	14.5 watts

Analog Video Input

HD Standard:	YPbPr or RGB SMPTE
SD Standard:	Composite, Y/C or Component (YPbPr BetaCam™, MII™ or SMPTE/N10)
Impedance:	75

AES Input

Number of Inputs:	16-Ch unbalanced BNC (nominal 48 kHz only)
Impedance:	75
Input Level:	0.1 V to 2.5 V p-p (5 V p-p tolerant)
Resolution:	24-bit

Analog Audio Input

Number of Inputs:	8-Ch balanced
Connector:	Removable 3-pin Phoenix
Signal Level:	up to +24 dBu
Sample Rate:	48 kHz

Processing

A/D Converson:	HD: 4:4:4 SD: 8:8:8
Quantization:	12-bit A to D and 10-bit video data path
SD Comb Filter:	5-line adaptive

AES Output

Number of Outputs:	16-Ch unbalanced BNC
Impedance:	75
Sample Rate:	48 kHz
Resolution:	24-bit

HD/SD-SDI Output

Number of Outputs:	2
Standard:	SMPTE 292 and 259M
Signal Level:	800 mV nominal
Return Loss:	>15 dB at 5 MHz - 270 MHz >12 dB at 270 MHz - 1.485 GHz
Jitter:	HD: < 0.15 UI SD: < 0.10 UI
Embedded Audio:	16-Ch SD/HD