

9035



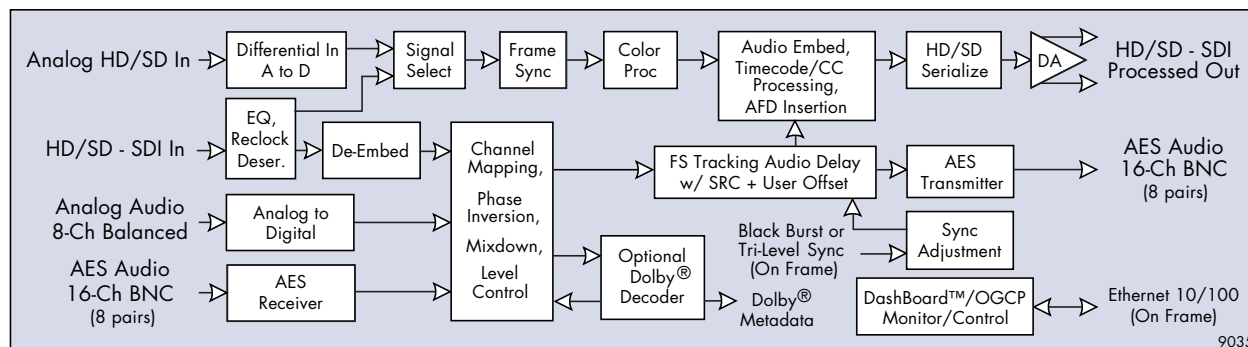
Analog and SDI Input to SDI Output Converter with Audio Embedding, Frame Sync

The 9035 is a HD/SD analog-to-digital video converter with 12-bit conversion bit depth that provides an HD/SD-SDI input, analog and digital audio inputs, audio embedding, audio de-embedding, frame sync, and user audio/video level controls. The 9035 includes full proc control, full audio routing and frame sync controls, and AFD code insertion – all with user memory. Frame sync can be used to delay video or audio-video offset for lip-sync alignment. Factory presets enable a return to factory settings.

9035-SD Input Processor: SD Analog and SD-SDI Input with Audio Embedding/De-Embedding and Frame Sync
Options: Dolby® Digital/E Decoding, Audio Mixer, Loudness Meter, Linear Acoustic Upmixer

Features

- HD/SD universal analog and digital inputs
- Differential analog video inputs for power hum rejection
- 5-Line adaptive comb filter for SD-Composite mode
- Video proc controls
- Analog and AES audio inputs and AES output
- 24-bit analog audio conversion to AES
- 24-bit audio embedding or de-embedding
- Audio channel mapping, downmixing, and level control
- Audio offset adjustment for lip-sync alignment
- Frame sync with up to 13 frames of user adjustable delay
- User offset to frame sync to align Dolby® delay
- 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



9035 Block Diagram

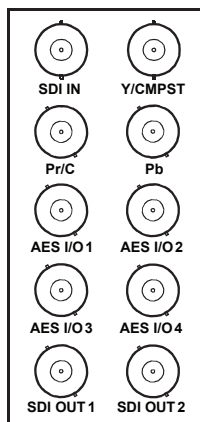
Ordering Information

9035	Input Processor: HD/SD Analog and HD/SD-SDI Input with Audio Embedding/De-Embedding and Frame Sync
9035-SD	Input Processor: SD Analog and SD-SDI Input with Audio Embedding/De-Embedding and Frame Sync
+DEC	Optional Dolby® Digital/E Decoding
RM20-9035-A	8321 Frame Rear I/O Module (Single Slot) Analog and Digital Video Input, 4 AES In/Out BNCs, and 2 SDI Output BNCs
RM20-9035-B	8321 Frame Rear I/O Module (Single Slot) Analog and Digital Video Input, 4 Analog Audio Inputs, and 2 SDI Output BNCs
RM20-9035-C	8321 Frame Rear I/O Module (Double Slot) Analog and Digital Video Input, 2 AES In BNCs, 4 AES In/Out BNCs, 8 Analog Audio Inputs, and 2 SDI Output BNCs
RM20-9035-D	8321 Frame Rear I/O Module (Double Slot) Digital Video Input, 4 AES In BNCs, 4 AES In/Out BNCs, 8 AES Out BNCs, and 2 SDI Output BNCs
RM20-9035-E	8321 Frame Rear I/O Module (Double Slot) Analog and Digital Video Input, 4 AES In BNCs, 4 AES In/Out BNCs, 6 AES Out BNCs, and 2 SDI Output BNCs
RM20-9035-F	8321 Frame Rear I/O Module (Double Slot) Analog and Digital Video In, 4 AES In/Out BNCs, 8 Analog Audio In, Metadata Output, and 2 SDI Output BNCs
RM20-9035-G	8321 Frame Rear I/O Module (Triple Slot) Analog and Digital Video In, 8 AES In BNCs, 8 AES Out BNCs, 8 Analog Audio In, and 2 SDI Output BNCs

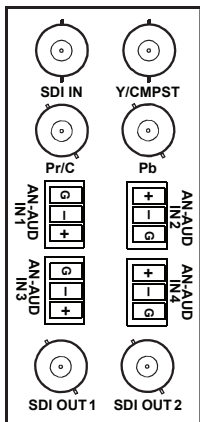
Rear modules also available for 8310 10-slot openGear™ frame (RM-XXXX-X), except where noted.

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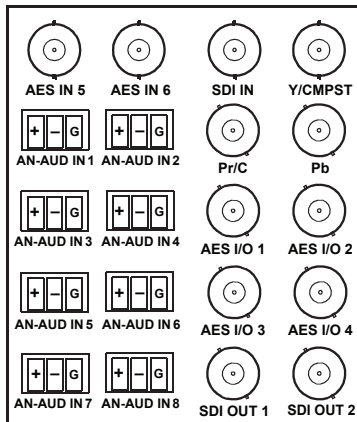
Rear Module Options



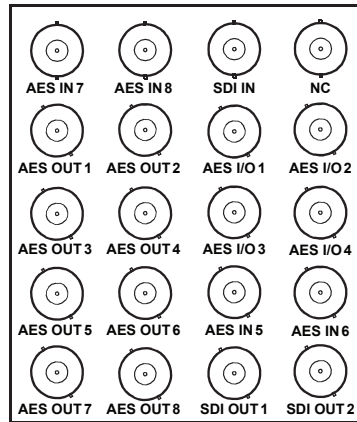
RM20-9035-A



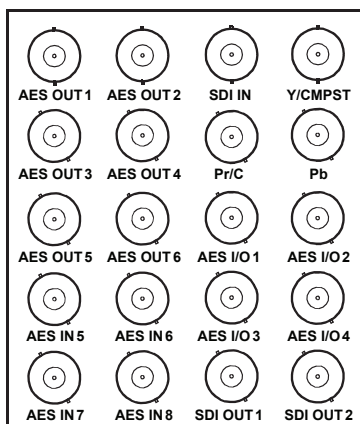
RM20-9035-B



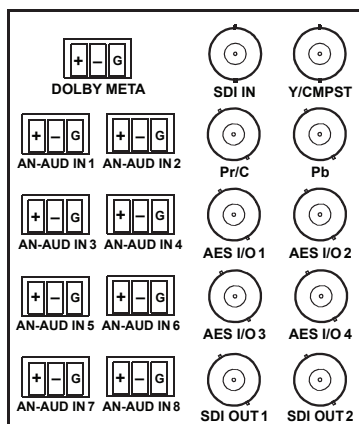
RM20-9035-C



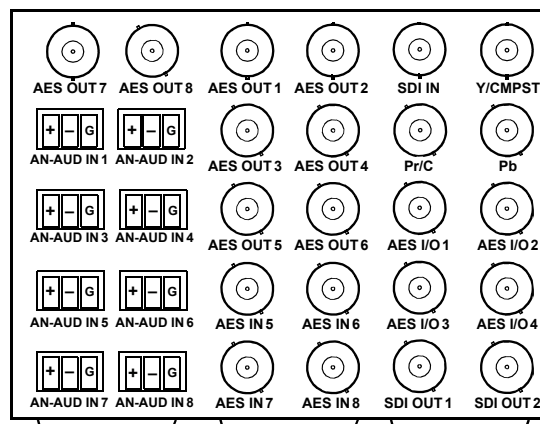
RM20-9035-D



RM20-9035-E



RM20-9035-F



RM20-9035-G

Specifications

Electrical

Power: 15 watts
 Power (Dolby®-DEC option): 17.5 watts

HD/SD-SDI Input

Number of Inputs: 1
 Standard: SMPTE 292 and 259M
 Return Loss: >15 dB at 5 MHz - 1.485 GHz

Analog Video Input

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

AES Input

Number of Inputs: 16-Ch unbalanced BNC
 Impedance: 75 Ω
 Input Level: 0.1 V to 2.5 V p-p (5 V p-p tolerant)

Analog Audio Input

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

Reference Video Input

Number of Inputs: 2 looping (openGear™ frame)
 Standard: Tri-level sync (SMPTE 274) and black burst (NTSC and PAL)

Processing

A/D Conversion: 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

Processing Delay

Minimum Frame Sync Delay: < 3 lines
 Delay with FS disabled: < 3.5 μ

AES Output

Number of Outputs: 16-Ch unbalanced BNC
 Impedance: 75 Ω
 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

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