

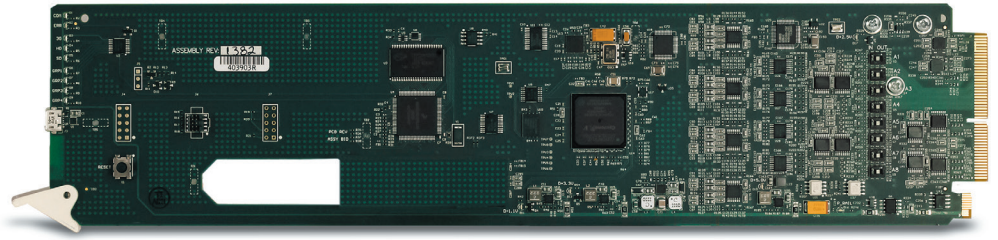
FEATURES

- ▷ Remote control monitoring via DashBoard™ software
- ▷ 3G/HD/SD-SDI I/O
- ▷ 8 Balanced Analog I/O
- ▷ 8 AES Pair I/O
- ▷ Dolby Aware SRCs
- ▷ Full Audio Crosspoint
- ▷ Per-Channel Gain
- ▷ Built-In Tone-Generators

APPLICATIONS

- ▷ Fly Packs
- ▷ House of Worship
- ▷ Mobile Trucks

Provides full 16-channel embed/de-embed between AES, 8-channel analog audio



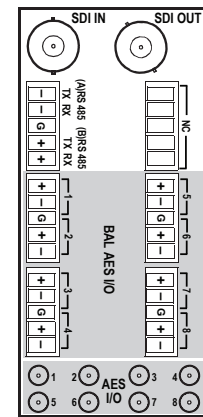
The OG-5210-EMB 3G/HD/SD-SDI 16-Channel AES/8-Channel Analog Audio Embedder/De-Embedder offers full-flexibility AES and analog audio embedding/de-embedding in a basic, economical, high-efficiency openGear® card.

The OG-5210-EMB provides full 16-channel embed/de-embed between AES, 8-channel analog audio, and all four groups of embedded audio. Audio embed adaptive SRC allows asynchronous 48 kHz AES audio to automatically sync with program video 48 kHz timing for glitch-free embedding. Individual, per-pair SRC auto-detects and disables SRC when a Dolby pair is detected on an input pair. Analog embed/de-embed conforms with professional balanced audio at 0 dBFS to pro 24 dBu levels using full 24-bit conversion.

Full audio crosspoint allows per-channel gain and routing controls, as well as built-in tone generators. Preset save/load allows saving custom card settings while allowing one-button revert to factory settings.

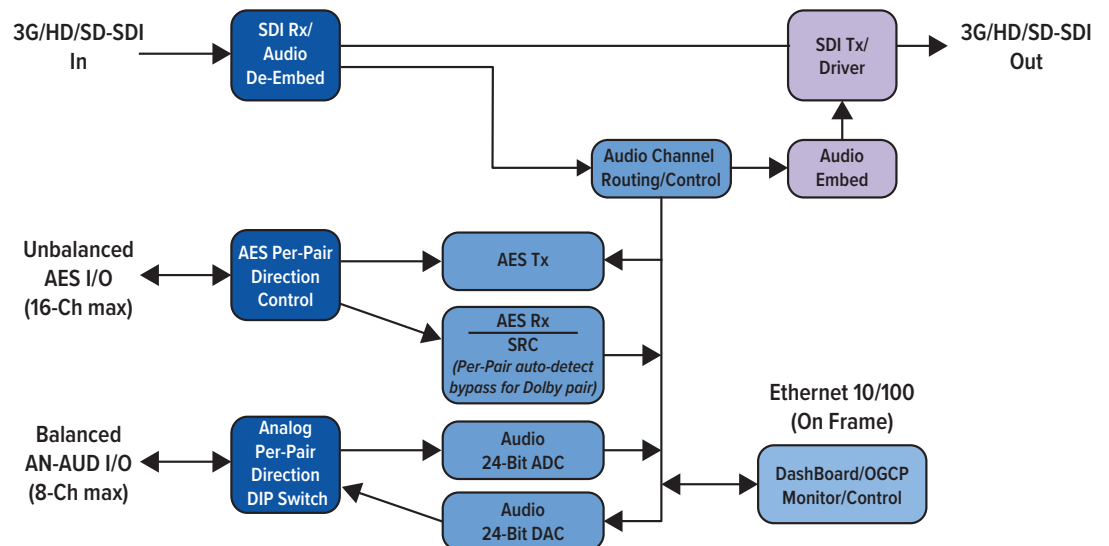
Full user DashBoard™ allows full status and control access locally or across a standard Ethernet network.

REAR MODULE MODELS



R2-5210-A
R2-5210-B

BLOCK DIAGRAM



ORDERING INFORMATION

FRAME OPTIONS	
OG-5210-EMB	3G/HD/SD-SDI 16-Channel AES / 8-Channel Analog Audio Embedder / De-Embedder
R2-5210-A	20-Slot Frame Rear I/O Module (Standard Width) (1) 3G/HD/SD-SDI Input BNC, (1) 3G/HD/SD-SDI Output BNC, (2) COMM I/O, (8) Balanced Analog Audio I/O, 8 Unbalanced AES I/O (coaxial; DIN 1.0/2.3)
R2-5210-B	20-Slot Frame Rear I/O Module (Standard Width) (1) 3G/HD/SD-SDI Input BNC, (1) 3G/HD/SD-SDI Output BNC, (2) COMM I/O, (8) Balanced Analog Audio I/O, 8 Unbalanced AES I/O (coaxial; HD-BNC)

TECHNICAL SPECIFICATIONS

Electrical

Power	18 Watts
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3G/HD/SD-SDI Input

75Ω BNC input	1
75Ω BNC output	1
SDI Receive Cable Length (1694A):	120m/180m/360m (3G/HD/SD)
SDI Return Loss	>15 dB up to 1.485 GHz; >10 dB up to 2.970 GHz Note: SDI Return loss and receive cable length are affected by rear I/O module used. Specifications represent typical performance.
Alignment Jitter	3G/HD/SD: < 0.3/0.2/0.2 UI
Timing Jitter	3G/HD/SD: < 2.0/1.0/0.2 UI
SDI Formats Supported	SMPTE 259M, SMPTE 292M, SMPTE 424M

Audio Conversion Format

48 kHz sampling, 24-bit. Auto-SRC bypass for Dolby inputs. Analog audio I/O conforms to +24 dBu <=> 0 dBFS
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Analog Audio Specifications

Input Impedance	>10 kΩ
Reference Level	-20 dBFS
Nominal Level	+4 dBu
Input Clip Level	+24 dBu (0 dBFS)
Freq. Response	±0.2 dB (20 Hz to 20 kHz)
SNR	115 dB (A weighted)
THD+N	-96 dB (20 Hz to 10 kHz)
Crosstalk	-106 dB (20 Hz to 20 kHz)
Output Impedance	< 50 Ω
Max. Output Level:	+24 dBu (0 dBFS)

Discrete Audio Input/Output

(8) Unbalanced AES (AES-3id; 75Ω) with per-pair port direction controls
(8) Balanced Analog Audio with per-channel port direction switches