

Key Features:

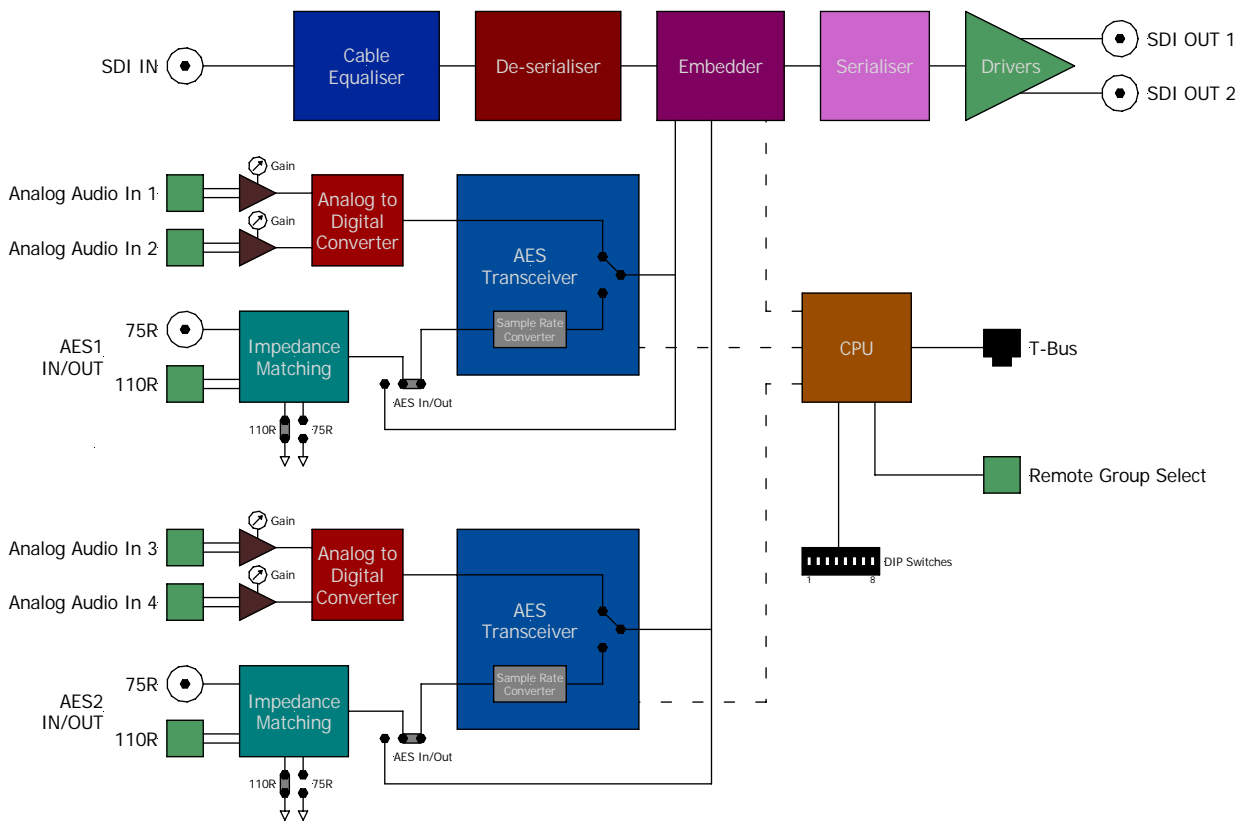
- Embeds asynchronous AES and analog audio
- Simultaneous embedding of AES and analog audio
- AES inputs configurable as outputs for use as ADC
- Supports SMPTE standard 272M A, B and C
- 250 meter automatic cable compensation
- Mating Phoenix connectors included
- Configuration via DIP switch or optional NK-IPS

Overview:

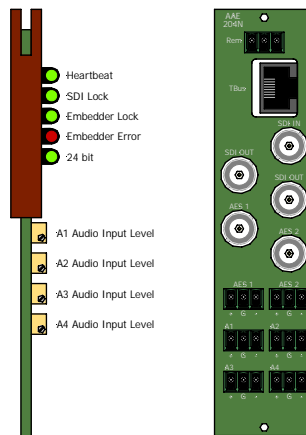
Codan Broadcast's PV Series AAE-204N eurocard analog / AES audio embedder provides a broadcast quality solution to the embedding of audio into a serial digital data stream.

The AAE-204N embedder is capable of embedding AES/EBU or analog audio streams into an SDI video stream to SMPTE 272M standard. It may also be configured to embed both an AES/EBU stream and an analog audio stream to different channels of an SDI video signal at the same time. The AAE-204N can also function as an audio ADC by configuring AES inputs to function as outputs. Configuration of these settings may be from on-board DIP switches or from any PC web browser on a network connected to a Codan Broadcast NK-IPS Network Bridge.

Connection to the Codan Broadcast NK-IPS enables users to view and configure the operation and performance of the AAE-204N, incorporating advanced status fields. It is also capable of setting advanced properties and viewing the status of the embedded signal stream including error display and status information.



AAE-204N Block Diagram



AAE-204N Front and Back

Technical Specifications:

SDI Input	
Connector	1 x 75 Ω terminating BNC
Equalisation	Automatic to 250 metres at 270 MB/s
Standard	SMPTE 272M A,B and C
AES Input /Output	
Connectors	2 x unbalanced 75 Ω BNC, link selectable as AES outputs 2 x balanced 110 Ω 3-way Phoenix screw terminal, link selectable as AES outputs
Type	AES inputs can be asynchronous to SDI input
Analog Audio Input	
Connectors	2 (Stereo) x balanced Phoenix 3-way screw terminal
Frequency Response	20 Hz to 20 kHz +/- 0.2dB
DAC Resolution	24 bit
Sample Rate	48 kHz
Interchannel crosstalk	>-95dB at 1 kHz
Level	Maximum +24dBu
THD + N	-100dB with respect to -20dBFS
Signal-to-noise	-100dB with respect to -20dBFS
SDI Output	
Connectors	2 x 75 Ω source fed BNCs
Level	800 mV p-p
Jitter	<450ps
Processing	Data decoding and relocking (10 bit)
Remote Group Select	
Connector	Phoenix 3-way screw terminal
Number	One of four groups selectable
Logic	Contact closure to ground to make selection
Indicators	
Heartbeat	Front PCB Green LED indicates healthy system
SDI Lock	Front PCB Green LED indicates the presence of valid SMPTE 272M SDI input
Embedder Lock	Front PCB Green LED indicates embedder is multiplexing audio into valid SDI input
Embedder Error	Front PCB Red LED indicates invalid AES input
24 bit	Front PCB Green LED indicates 24 bit word length
General	
Configuration	Web browser via NK-IPS Hardware DIP switches on board

Specifications subject to change without prior notice.

Ordering Information:

AAE-204N Analog / AES into SDI Embedder