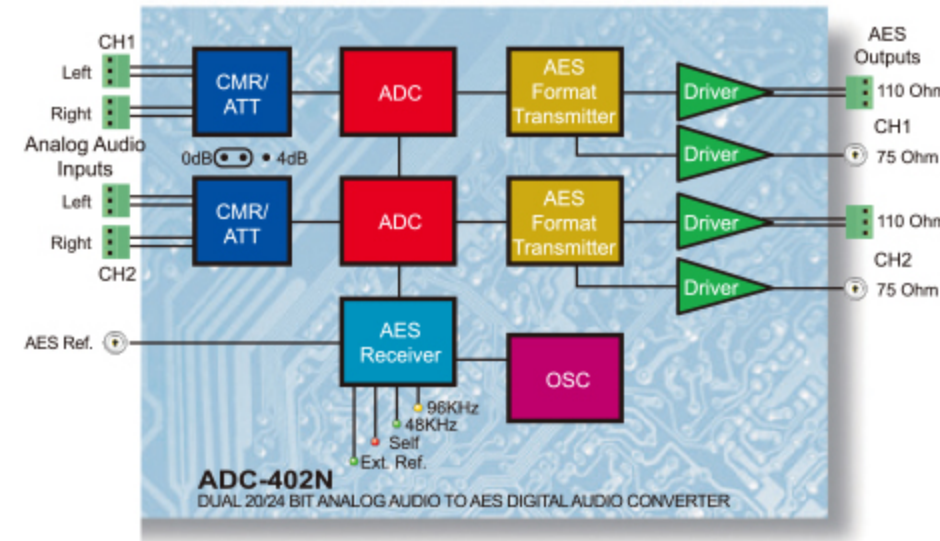
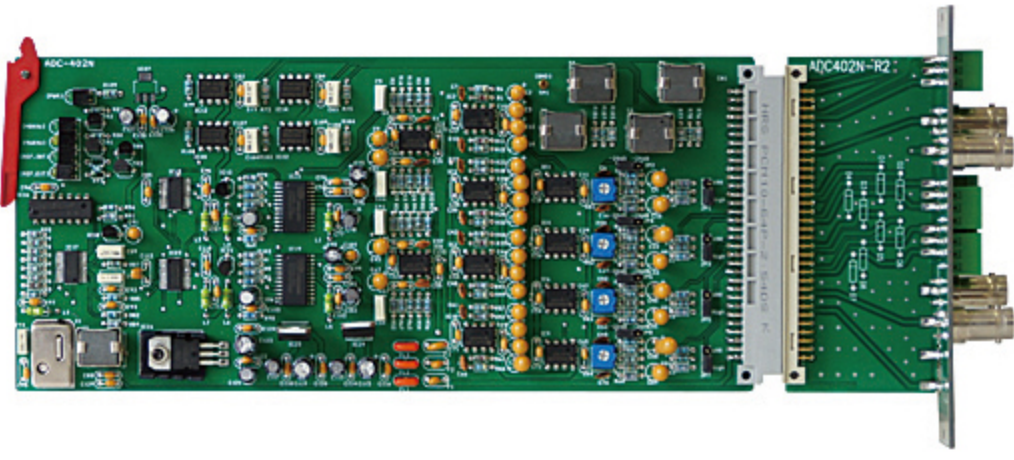


ADC-402N(4CH Audio to Dual AES Converter)



ADC-402N Functional Block Diagram

24비트의 정밀한 A to D 컨버터를 사용한 고품질의 방송용 모듈로서 4 CH의 오디오 신호(2채널 스테레오)를 2채널의 AES/EBU신호로 변환하여 출력(Unbalanced 75Ω과 Balanced 110Ω으로 분리된 2개의 디지털 출력)한다. 선택 가능한 입력 임피던스는 600Ω과 High-Z가 있고, 입력 Attenuation은 -20dBFS와 -24dBFS가 있다.

Sampling Rate는 외부 AES Reference 입력에 따라 48KHz와 96KHz가 자동으로 선택되고, 외부 Reference가 없는 경우에는 내부 Clock에 의하여 48KHz가 선택되며 선택된 결과는 전면의 LED램프에 의하여 표시된다. ADC-402N은 114dB의 Dynamic Range를 갖고 있어 고품질의 방송을 할 수 있으며 외부 AES Reference 신호에 Locking되어질 수 있다.

Features

- 4 Balanced analog audio inputs
- Dual AES outputs (75 and 110 ohm to each O/P)
- 48 and 96kHz data rates
- 24 bit ADC supported
- Reference to AES
- Full broadcast response, THD+N and S/N

Ordering Information

- ADC-402N Euromodule with rear connector assembly and mounting hardware
- WMF-310S 3RU module frame with single power supply
- WMF-310D 3RU module frame with dual power supply
- WMF-102S 1RU module frame with single power supply

Technical Specification

Analog Audio Inputs

Number	4 channels
Input	Balanced
CMRR	>60dB, 20Hz to 10kHz
Impedance	600Ω or High-Z
Input levels	0dBu WRT -20dBFS and +4dBu WRT-24dBFS link selectable

Digital Audio Output

Number	2 outputs per AES output
Impedance	1×75 ohm and 1×110 ohm for each
AES output	AES 3id 1Vp-p for 75 ohm and 3.5Vp-p for 110 ohm
Outputs Level	
Sample rates	48 and 96kHz supported
Connectors	3 pin Phoenix header with mating screw plug supplied for the 110 ohm output and BNC for the 75 ohm output

Audio Characteristics

ADC Resolution	24Bit
Input Level	+4dBu Nominal
Frequency Res.	±0.2dB (20Hz to 20KHz)
THD+N	0.05%
S/N Ratio	85dB
Channel Crosstalk	-80dB

External Reference

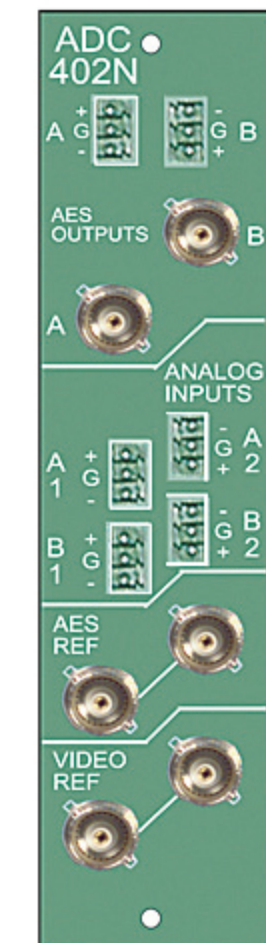
AES	75 ohm AES 1.0Vp-p terminated
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Electrical

Power supply input	+ 8V, +15V and -15V DC unregulated.
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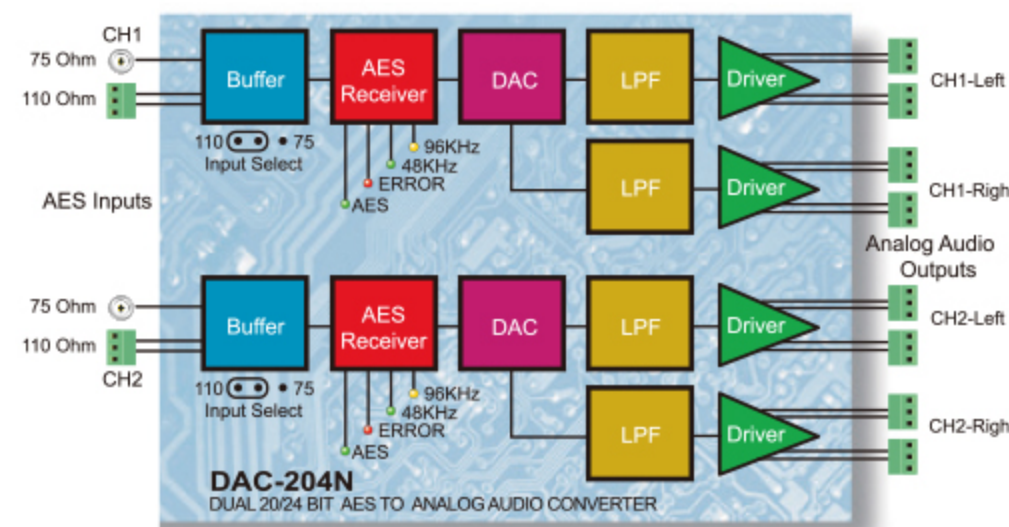
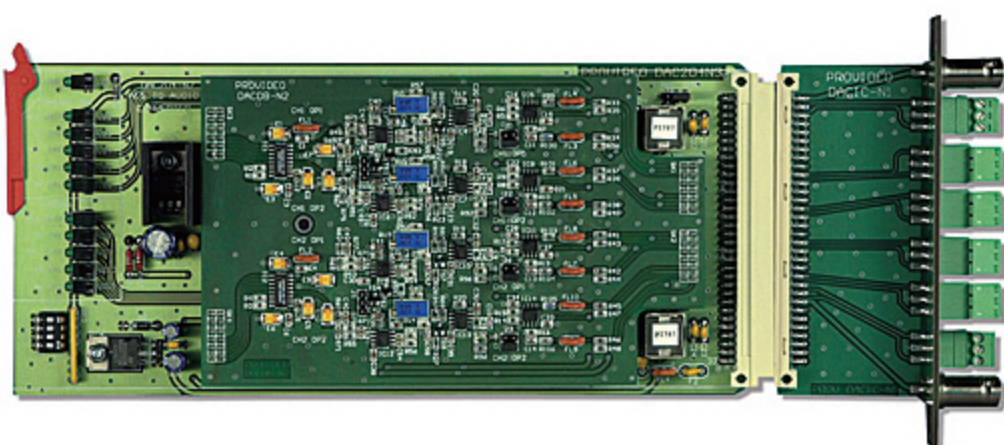
Mechanical

Size	220mm × 100mm
Width	6HP



Rear panel

DAC-204N(Dual AES to 4CH Audio Converter)



DAC-204N Functional Block Diagram

24비트의 정밀한 D to A 컨버터를 사용한 고품질의 방송용 모듈로서 2 CH의 AES/EBU 신호를 4 CH (2채널의 스테레오) 오디오 신호로 변환하여 출력해 주며 입력은 Unbalanced 75Ω 또는 Balanced 110Ω 선택이 가능하다.

아날로그 출력은 각 채널별로 ±12dB Level 조정이 가능하다. 전면의 LED는 입력되는 AES 신호의 디지털 입력신호 상태(AES or Error)와 더불어 48KHz와 96KHz의 Sampling Rate를 표시한다. DAC-204N은 114dB의 Dynamic Range를 갖고 있어 고품질의 방송을 할 수 있다.

Features

- Dual AES on one module
- Selectable 75 or 110 ohm input
- 48 and 96kHz data rates
- Data present LED indication
- Full broadcast response, THD+N and S/N
- 24 bit DAC

Ordering Information

- DAC-204N Euromodule with rear connector assembly and mounting hardware
- WMF-310S 3RU module frame with single power supply
- WMF-310D 3RU module frame with dual power supply
- WMF-102S 1RU module frame with single power supply

Technical Specification

Digital Audio Inputs

Number	2 AES channels
Input	Unbalanced 75 ohm balanced link selectable
Sample rates	30 kHz to 192kHz
Input rate selection	Automatic
Decodes	AES/EBU, S/PDIF
Connectors	BNC for 75 ohm and 3 pin Phoenix for 110 ohm inputs

Analog Audio Outputs

Number	2 outputs per audio channel
Impedance	Typically ≤60 ohm, balanced
Output type	Balanced differential
Level	+4dBu nominal
Gain trim per channel	±12dB
Connectors	3 pin Phoenix header with mating screw plug supplied

Audio Characteristics

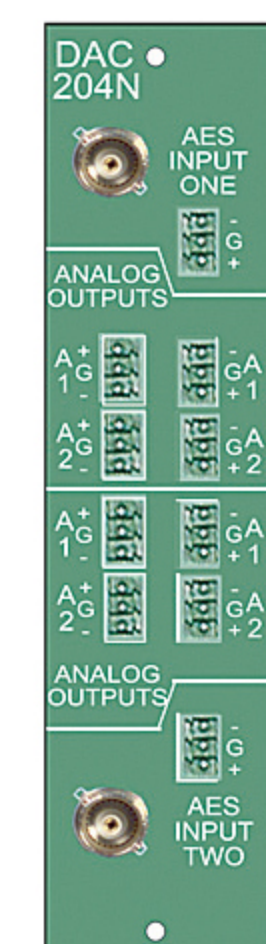
DAC Resolution	24Bit
Input Level	-20dBFS Nominal
Frequency Res.	±0.5dB (20Hz to 20KHz)
THD+N	0.02%
S/N Ratio	85dB
Channel Crosstalk	-80dB

Electrical

Power consumption	150mA @ + 8V, 25mA @ +15V and -15V DC unregulated.
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Mechanical

Size	220mm × 100mm
Width	6HP



Rear panel