

ARG6800+S/D

Analog Audio Remote Gain, Balanced

The ARG-6800+ analog audio remote gain distribution amplifier (DA) is a high-performance amplifier that offers remotely controlled audio gain that can be increased for specific applications. Control is selectable to either remote or local. Flat frequency response, carefully controlled roll-off and very low distortion ensure a virtually transparent transmission path.

The input is over-voltage protected up to 120 volts AC or DC. The transformerless, balanced input is normally bridging, but can be terminated by installing a suitable resistor. Unbalanced input is converted to balanced output. Isolation between modules in the mounting frame is better than 90 dB over the entire audio frequency band.

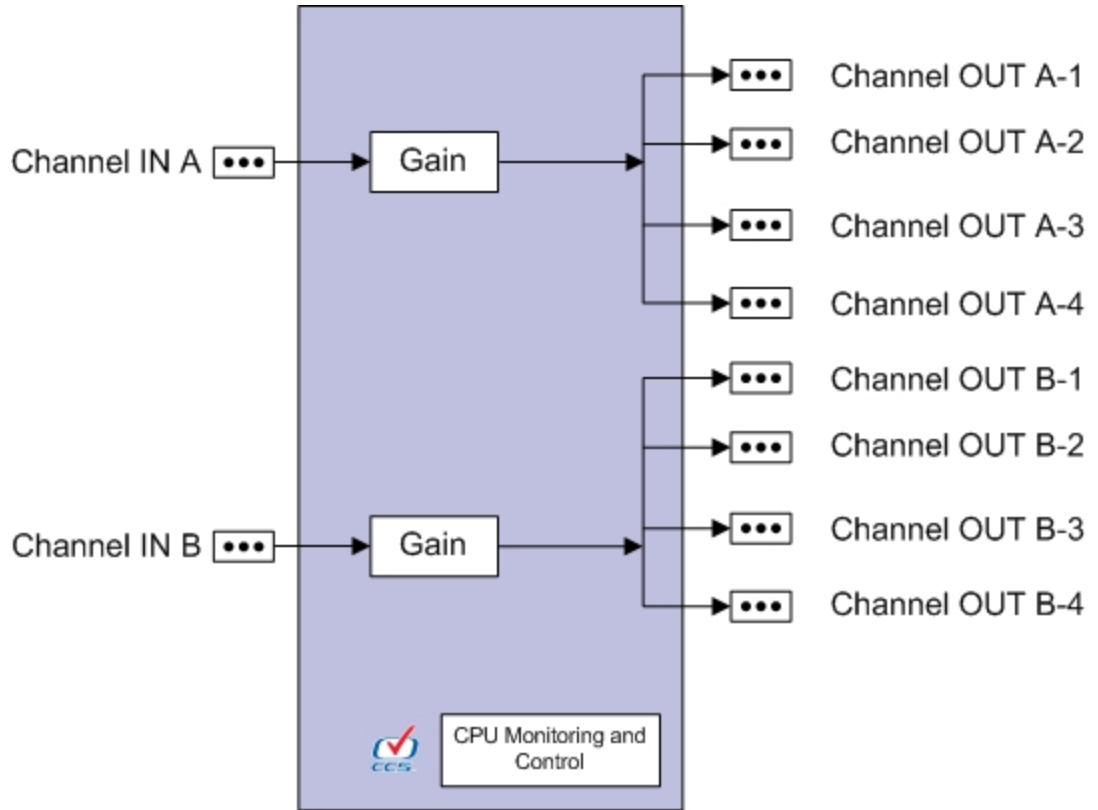
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FEATURES

- Balanced inputs and outputs
- Remote control for mute settings
- Remote indication for channel state and overload
- Remote and local control for independent channel gain adjustment
- Local control for selecting output configuration
- Configurable outputs to one of the following options:
 - Eight outputs designated to one channel (1x8)
 - Four outputs designated to channel A, four outputs designated to channel B (dual 1x4)
 - Eight outputs designated to the combined stream of both channels (2x8 sum)

IMAGES/DIAGRAMS

Block Diagram

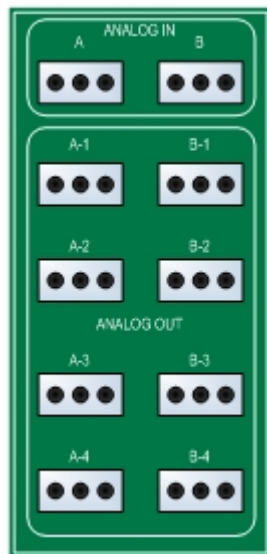


Block Modules

ARG6800+ S



ARG6800+ D



SPECIFICATIONS

Specifications and designs are subject to change without notice.

Balanced Analog Audio Input

Number of Inputs	ARG6800+SR: 1 input ARG6800+DR: 2 inputs
Connector	3-pin Harris audio connector
Signal Type	Balanced
Input Impedance	HiZ, >30 ohms
Maximum Input Level	+28 dBu
CMR Range	±20 V
CMRR	90 dB @ 60 Hz @ 8 dBu
Gain Range	-95.5 to 31.5 dB in 0.5 dB steps (gain increment tolerance ±0.05 dB)
Gain Trim	Local front adjust potentiometers provide ±1.5 dB to set exact unity

Balanced Analog Audio Output

Number of Outputs	ARG6800+SR: 4 outputs ARG6800+DR: 8 outputs
Connector	3-pin Harris audio connector
Signal Type	Balanced
Output Impedance	66 ohms
Maximum Output Level	+28 dBu

Performance

SNR	>90 dB @ unity gain, 20 Hz to 20 kHz relative to +8 dBu signal, unweighted
Frequency Response	±0.05 dB 20 Hz to 20 kHz relative to 1 kHz @ unity gain
THD	<0.02% 20 Hz to 20 kHz @ 24 dBu
IMD	<0.02%, SMPTE @ +18 dBu
Crosstalk	>85 dB isolation, 20 Hz to 20 kHz
Output Isolation	>70 dB, 20 Hz to 20 kHz

Channel Monitoring Specifications

Channel State	Inactive state if Channel <-40 dBu for 5 sec Active state if Channel >-40 dBu for 5 sec
Channel Overload	Overload condition if Channel >23.5 dBu for 1 sec

Power Consumption	3 W
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ORDERING INFORMATION

ARG6800+S	1x4 DA, analog audio remote gain, balanced, one slot
ARG6800+D	Two 1x4 or one 1x8 DA, analog audio remote gain, balanced, two slots