

ARG6800+S/D

Analog Audio Remote Gain, Balanced

The ARG6800+ 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 ARG6800+ DA is designed for use in the 6800+™ modular processing platform.

The input is over-voltage protected up to 120 V 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.

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 (1×8)
 - Four outputs designated to channel A, four outputs designated to channel B (dual 1×4)
 - Eight outputs designated to the combined stream of both channels (2×8 sum)

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 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

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Number of Outputs	ARG6800+SR: 4 outputs ARG6800+DR: 8 outputs
Connector	3-pin 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

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

Ordering Information

ARG6800+S	1×4 DA, analog audio remote gain, balanced, 1 slot
ARG6800+D	Two 1×4 or one 1×8 DA, analog audio remote gain, balanced, 2 slots

Images/Diagrams

