

FEATURES

- Support of 2 single or A/B lines
- Support one Class A circuit (loop)
- High power load up to 500 W per line
- 32-bit DSP audio processor
- Optional audio 0 dB input card 2LGA
- Impedance or pilot method monitoring
- Wide frequency response
- Ultra-low quiescent mode
- Delays on loudspeaker lines (eg. tunnel SLASS method)
- Hot-swap functionality
- Overvoltage, overcurrent and short circuit protection



Certificate of constancy of performance 1438-CPR-1077
Certificate of admittance 5641/2025



EN54 16

OVERVIEW

The 2LG2 is a system card designed for installation in KG-ETH or KAS units, enabling direct connection of two 100 V loudspeaker lines or one Class A loop to the system. Loudspeaker lines can be configured as two independent lines or as redundant A/B lines powered from the same amplifier channel.

Loudspeaker line monitoring is performed using the impedance measurement method for standard lines, or the pilot signal method for Class A loops.

A single 2LG2 card connects to one primary amplifier channel, with the option to add a redundant amplifier that is automatically activated in case of a primary amplifier failure.

Multiple 2LG2 cards can share a common amplifier output, allowing flexible system configuration:

- Basic configuration – one 2LG2 card connected to one amplifier channel
- Multiple card configuration – several 2LG2 cards connected to a single amplifier channel, broadcasting the same audio signal to multiple loudspeaker lines

The 2LG2 can be paired with a 2LGA module, enabling a local audio source to be connected to each 2LG2 card individually.

TECHNICAL SPECIFICATION

GENERAL

Power supply	24 V DC $\pm$ 20 % 48 V DC $\pm$ 15 %
Idle consumption	< 0,6 W
Standards	EN54, CE
Mechanical	3 U, 4 HP
Operating temperature	-5 : +50 °C
Relative humidity	25 % - 90 %
Indicators	ID, fault A, fault B, switch to redundant amplifier
Connectors	Redundant and primary amplifier, line A, line B (or loop back), symmetrical 0 dB audio output

AUDIO SPECIFICATION

Frequency response	10 Hz - 30 kHz (- 3 dB)
Distortion (THD + N) (1 kHz)	< 0,1 %
Signal-to-noise ratio	> 86 dB

OTHERS

Output voltage	0 - 140 V
Programmable delay	> 1 s
Digital audio format	PCM 16-bit / 48 kHz

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