

# GUARDIAN<sup>2</sup>

ACTIVE TWO CHANNEL LOUDSPEAKER PROTECTION DEVICE

DATASHEET V1.2 | 18-01-2024 | E&OE



**AMINA**  
IMMERSIVE INVISIBLE SOUND

## Product Description

The Guardian<sup>2</sup> is the two channel variant of Amina's all-new active loudspeaker protection system.

The sophisticated 2-stage active circuit design responds to RMS and peak audio events in an instant, eliminating any opportunity for Amina invisible loudspeakers to be overloaded with excess power from audio system events or user error, in an appropriately configured audio system.

**RMS** or average voltage protection continually monitors the power delivery over a short time window to detect any potential for thermal overload.

**Peak** voltage protection continually monitors for excessively powerful short-duration peaks which may otherwise have the potential to cause the speaker to exceed its mechanical limits.

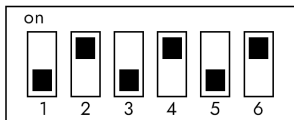
If and when the peak or RMS monitoring thresholds are exceeded, the signal to the speaker is immediately attenuated, returning to a normal state once safe to do so.

## Configuration

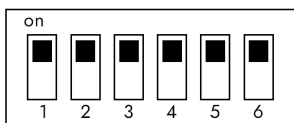
The Guardian<sup>2</sup> will be supplied pre-configured for specific loudspeakers, but can also be re-configured to protect any current Amina invisible loudspeaker via a series of internal dipswitches, accessed by removing four phillips-head screws.



**30W RMS / 60W Peak for:**  
Edge3i, Mobius3i, MobiusDuali (x2)



**50W RMS / 100W Peak for:**  
Edge5i, Mobius5i, Mobius5i/S200



**75W RMS / 150W Peak for:**  
Edge7i, Mobius7i



The Guardian<sup>2</sup> can be powered by a 5V USB cable, via PoE by using a 5VDC regulated PoE splitter, or any available powered USB ports.

The Guardian<sup>2</sup> must be positioned close to the amplifier and be easily accessible. It should never be positioned in the wall/ceiling where it cannot be accessed easily.

The Guardian<sup>2</sup> is intended to be a last-line-of-defence against accidental overloading and should not be used as a volume limiter or for gain reduction. It is always best practice to configure the audio system in a way that prevents overdriving and ultimately trip events which interrupt the user experience. Amplifiers must be appropriately specified and/or the channel power output must be appropriately configured to the speaker it is driving.

## Specifications

Number of Channels

2

Signal Connection

Phoenix Connectors (2.5mm to 1mm core conductor / 10-18 AWG)

Power Connection

Female Micro-USB (1m [39 3/8"]) USB-A > Micro-USB Cable Provided)

Power Requirement

5V / 1A

Product Weight

71g (1/2 oz)

Product Dimensions (Including Connectors)

100mm x 48mm x 24mm / (3 15/16" x 1 7/8" x 15/16")

Compatible Loudspeaker Ranges

All Mobius and Edge Loudspeakers

Relevant Regulatory Standards

CE Low Voltage Directive (LVD)

Manufacturer Limited Warranty

3 Years

## Guardian<sup>2</sup>

### Amina Technologies Limited

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## Connection

The Guardian<sup>2</sup> is designed to connect between the amplifier and loudspeaker. It should be installed in an accessible location, usually behind the amplifier in the AV rack, and ideally one channel of protection should be used for each loudspeaker. The Guardian should never be installed in wall or ceiling cavities. Connections are made using the included industry-standard Phoenix connectors with both inputs on one side and both outputs on the other side for neat cable management.



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