



# Iris DSP Amplifier module

Wireless 2-channel DSP Audio Amplifier Module

IRIS AMP SERIES

STREAMIT.EU

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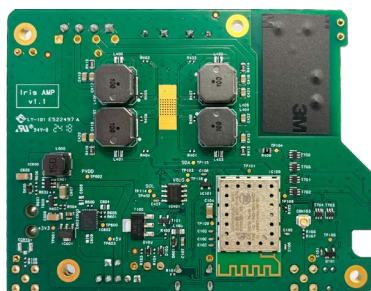
*Revolutionizing Wireless Sound Experience*

The Iris DSP Amplifier Module drives your passive loudspeakers and makes them wireless. The compact module is designed for mounting inside the loudspeaker, blending seamlessly with the loudspeaker design while keeping all the renowned capabilities of the Iris product range.

The highly efficient module delivers a staggering 2x50-watt power and a full 20 Hz to 20 kHz audio range, capturing every nuance of your content. The integrated DSP enables functionalities like crossover, PEQ, compressor, and limiter. This guarantees optimized loudspeaker performance, allowing for precise management of crossover, PEQ, delay, and limiter settings.

Unlike traditional solutions, the integrated wireless receiver operates on the 1.9 GHz band, avoiding the congestion that constantly affects Bluetooth and Wi-Fi while streaming audio. Whether your setup is within a 50-meter indoor environment or extends up to 300 meters outdoors, the Iris technology guarantees consistent and high-quality sound distribution. And it achieves all this at a latency as low as 16.5ms.

Our intuitive companion apps ensure a seamless setup. The Iris DSP Amplifier Module can join any Iris audio network available on the premises. And with a network capacity of 50 receivers per network scalability is never an issue.



Iris DSP Amplifier Module (rear)



Iris DSP Amplifier Module (front)

## FEATURES

- 2x50 watt amplifier
- Powerful DSP with PEQ, crossover, limiter and delay
- Compatible with Iris (Pro) Transmitter
- Uncongested connectivity via the 1.9 GHz band
- Extensive range outdoors as well as indoors
- Up to 10 audio networks per site, with up to 50 receivers per network
- Rock solid reliability
- Two-channel audio operation
- Audio frequency range from 20 Hz to 20 kHz
- Ultra-low latency of 16.5 ms
- Intuitive setup and device management through our dedicated apps
- Clear indication of quality of wireless connection
- Mains or Rechargeable Battery powered (\*)
- Digital output for switching of external equipment

## VISUAL INDICATOR

- Status of DECT connection



## GET IN TOUCH

See more on our website: <https://www.streamit.eu/iris-dsp-amplifier-module/>

Get in touch with us if you have any questions about our products.

We are happy to help.

## Wireless

	Iris DSP Amplifier module
Wireless technology	DECT 1.9 GHz
Reception range	50m indoors to 300m outdoors
Latency	16.5ms
Synchronicity	0.15ms
Internal antenna	yes
External antenna	yes

## Analog audio

Max Output Power @4-8 Ω	2x 50W
Frequency range	20 Hz to 20kHz
Output channels	2
Signal to noise ratio (SNR)	>90dB
THD+N (@ 1 kHz)	<0.1%

## Electrical

Power supply	Integrated
Operating voltage	100~240VAC/50~60Hz
Power consumption (AC)	Max 45W, <1W (idle)

## Audio DSP

- About 100 configurable biquads
- Volume control / limiter
- Dynamic range compressors
- Multiband DRC
- Dynamic EQ
- Delay up to 1x20 ms or 2x10 ms
- X-over

## Digital input

Logical low	$\leq 0.8V$
Logical high	$\geq 2.5V$
Internal pull-up resistance	10 kΩ
Maximum input voltage	3.3V

## Digital output

Maximum switching voltage	42V
Maximum output current	1.4A

## Environmental and safety

Operating temperature	-20 °C to 50 °C
Humidity	30% to 90% RH, non-condensing
Regulatory compliance	CE, WEEE
Radio Equipment Directive (RED)	2014/53/EU
RoHS	2011/65/EU & (EU) 2015/863

## Mechanical

SMA antenna connector	U.FL
Audio output connector	pinheader 0.1"
Power connector	pinheader 0.2"
Service connector	USB-C
Relay control input	pinheader 0.025" *1)
Relay control output	pinheader 0.025"
LEDs	pinheader 0.025" (max 4 RGB leds)
Charger/battery connector	pinheader 0.05"
Dimensions (LxDxH)	98x77x40 mm
Weight	590gr

\*1) Not supported by software

## Ordering information

	Iris DSP Amplifier Module	Iris Iris DAM Starterkit
Product name	DAM-250	DAX-250
Article number		

## Packaging contents

	Iris DSP Amplifier Module	Iris Iris DAM Starterkit
USB-A to USB-C cable 2m	1	1
Iris DSP Amplifier Module DAM-250	1	1
External antenna	1	1
Antenna cable with SMA and U.FL connector	1	1
Mounting accessoires	1	1
Mains cable with PowerCON connector		1
Speaker cable with SpeakON connector		1
Quick start guide	1	1
Dimensions packaging		
Gross weight		