



Iris DSP Amplifier module

Wireless 2-channel DSP Audio Amplifier Module

IRIS AMP SERIES

STREAMIT.EU

Iris DSP Amplifier Module

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.

TECHNICAL INFORMATION

Wireless

Wireless technology

Reception range

Latency

Synchronicity

Internal antenna

External antenna

Iris DSP Amplifier module

DECT 1.9 GHz

50m indoors to 300m outdoors

16.5ms

0.15ms

yes

yes

Analog audio

Max Output Power @4-8 Ω

Frequency range

Output channels

Signal to noise ratio (SNR)

THD+N (@ 1 kHz)

2x 50W

20 Hz to 20kHz

2

>90dB

<0.1%

Electrical

Power supply

Operating voltage

Power consumption (AC)

Integrated

100~240VAC/50~60Hz

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

Logical high

Internal pull-up resistance

Maximum input voltage

Iris DSP Amplifier Module

<= 0.8V

>=2.5V

10 kΩ

3.3V

Digital output

Maximum switching voltage

Maximum output current

42V

1.4A

Environmental and safety

Operating temperature

Humidity

Regulatory compliance

Radio Equipment Directive (RED)

RoHS

-20 °C to 50 °C

30% to 90% RH, non-condensing

CE, WEEE

2014/53/EU

2011/65/EU & (EU) 2015/863

Mechanical

SMA antenna connector

Audio output connector

Power connector

Service connector

Relay control input

Relay control output

LEDs

Charger/battery connector

Dimensions (LxDxH)

Weight

U.FL

pinheader 0.1"

pinheader 0.2"

USB-C

pinheader 0.025" *1)

pinheader 0.025"

pinheader 0.025"(max 4 RGB leds)

pinheader 0.05"

98x77x40 mm

590gr

*1) Not supported by software

Ordering information

Product name

Article number

Iris DSP Amplifier Module

DAM-250

Iris Iris DAM Starterkit

DAX-250

Packaging contents

USB-A to USB-C cable 2m

Iris DSP Amplifier Module DAM-250

External antenna

Antenna cable with SMA and U.FL connector

Mounting accessoires

Mains cable with PowerCON connector

Speaker cable with SpeakON connector

Quick start guide

Dimensions packaging

Gross weight

1

1

1

1

1

1

1

1

180x163x56 mm

830 gr

1

1

1

1

1

1

1

1

180x163x56mm

830 gr