

# S-AMP K1501M

## 2-channel amplifier module



✓ ACTIVE LOUDSPEAKERS

2  
CHANNELS

Class D  
WITH ACTIVE  
DISTORTION  
COMPENSATION

DSP  
ON  
BOARD

PFC

LLC  
HALF-BRIDGE  
INVERTOR

### Features

- Class D with active distortion compensation
- No need to use Zobel chains, and since the feedback is taken directly from the output, distortion and non-linearities are corrected, which are included in the signal
- The most accurate sound reproduction account of less deep feedback
- Switching power supply with active power factor corrector (PFC), so the efficiency can reach 96%
- No noticeable thermal distortion when playing low frequencies
- The power supply is based on an LLC resonant half-bridge converter topology. Rectangular structures typical of capacitor circuits are converted into sine waves, greatly improving efficiency
- Full control of the speaker cone due to extremely low output impedance

### Applications

Active loudspeakers  
Configurations:  
Subwoofer+Satellite (full range)  
Satellite (Bi-Amp)

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### Specifications

#### DSP

Architecture	32-bit fixed point
Control system	Specialized Software
Latency	0,24 ms
10-band parametric equalizer	One in the preprocessing channel, and One in each postprocessing channel
Supported filter types	HiPass, LowPass, peaking, shelving
Crossover	3-band
IIR filter types supported	Linkwitz-Riley, Butterworth, Bessel (12 dB/oct. до 48 dB/oct.)
FIR filter support	Optional
Delay	Up to 80 ms in the preprocessing channel Up to 32 ms in each postprocessing channel
Limiters	Non-disconnectable, Parameterized RMS and Peak

#### Amplifier

Number of output channels	1 in/2 out
Maximum output voltage of channel 1	155 V
Maximum output voltage of channel 2	77 V
Maximum output current per channel	30 A

#### Output power according to CEA-2006 / 490A (1% THD, 1 kHz), 1 channel

4 Ом	1500 W with limiter
8 Ом	1500 W
16 Ом	725 W

#### Output power according to CEA-2006 / 490A (1% THD, 1 kHz), 2 channel

4 Ом	750 W
8 Ом	375 W
16 Ом	190 W

#### Sound performance

Gain	15-36 dB
Signal-to-noise ratio	>105 dB
Frequency response (120W, 4 Ohm)	20 Hz-20 kHz ( $\pm$ 1dB)
THD + N at 1 kHz and 1 dB below overload	<0,05%
Damping factor (4 Ohms, 20Hz - 20kHz)	>500

#### Input impedance

Balanced	20 kOhm
Unbalanced	10 kOhm

#### Mains power

Power supply	Impulse with Power Factor Corrector (PFC)
Rated mains voltage	160 - 250 V (50 - 60 Hz)

#### Consumption

No load power consumption	28 W
1/8 of maximum power, 8 Ohm, bridge	340 W
1/4 of maximum power, 8 Ohm, bridge	630 W

#### Weight and dimensions characteristics

Dimensions (WxHxD)	510x160x110 mm
Weight	5 kg