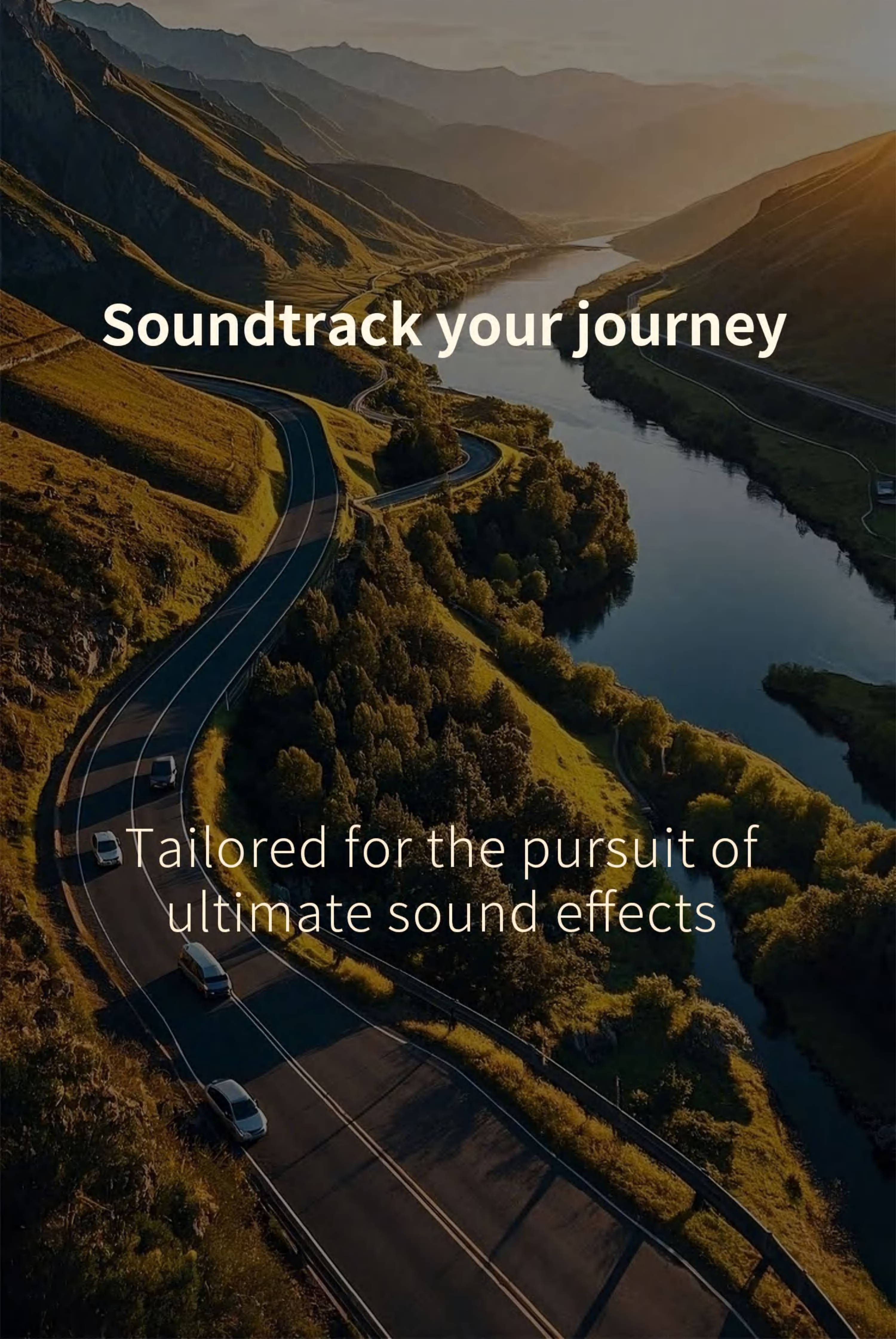


**SOUND
MAGUS**

Premium 16 Channel Audio Signal Processor

EP16S

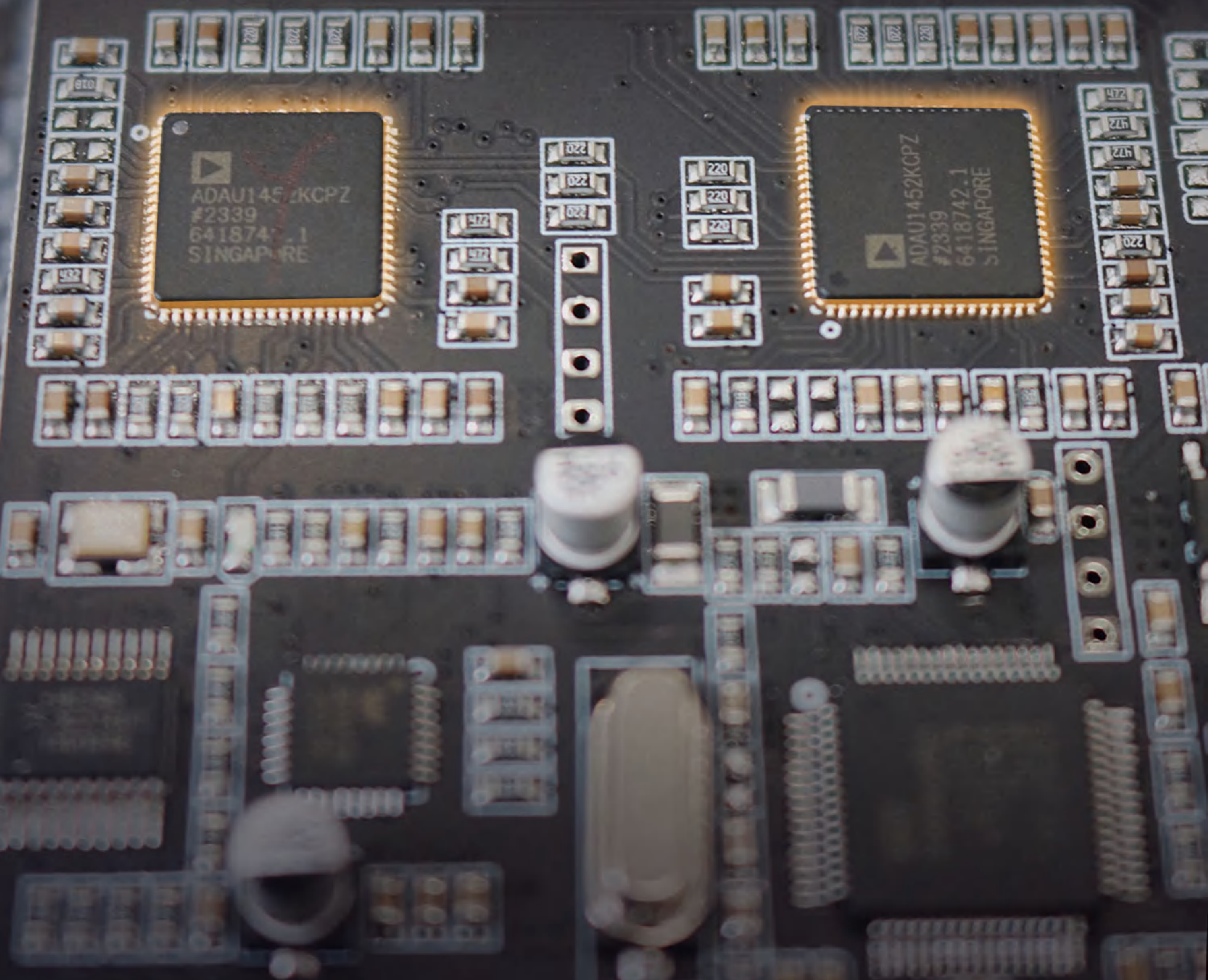


An aerial photograph of a scenic valley. A winding asphalt road curves through the landscape, with several cars driving on it. To the right of the road, a river flows through the valley. The surrounding hills are covered in green grass and trees. In the background, there are more hills and mountains under a clear sky. The overall lighting is warm, suggesting a sunset or sunrise.

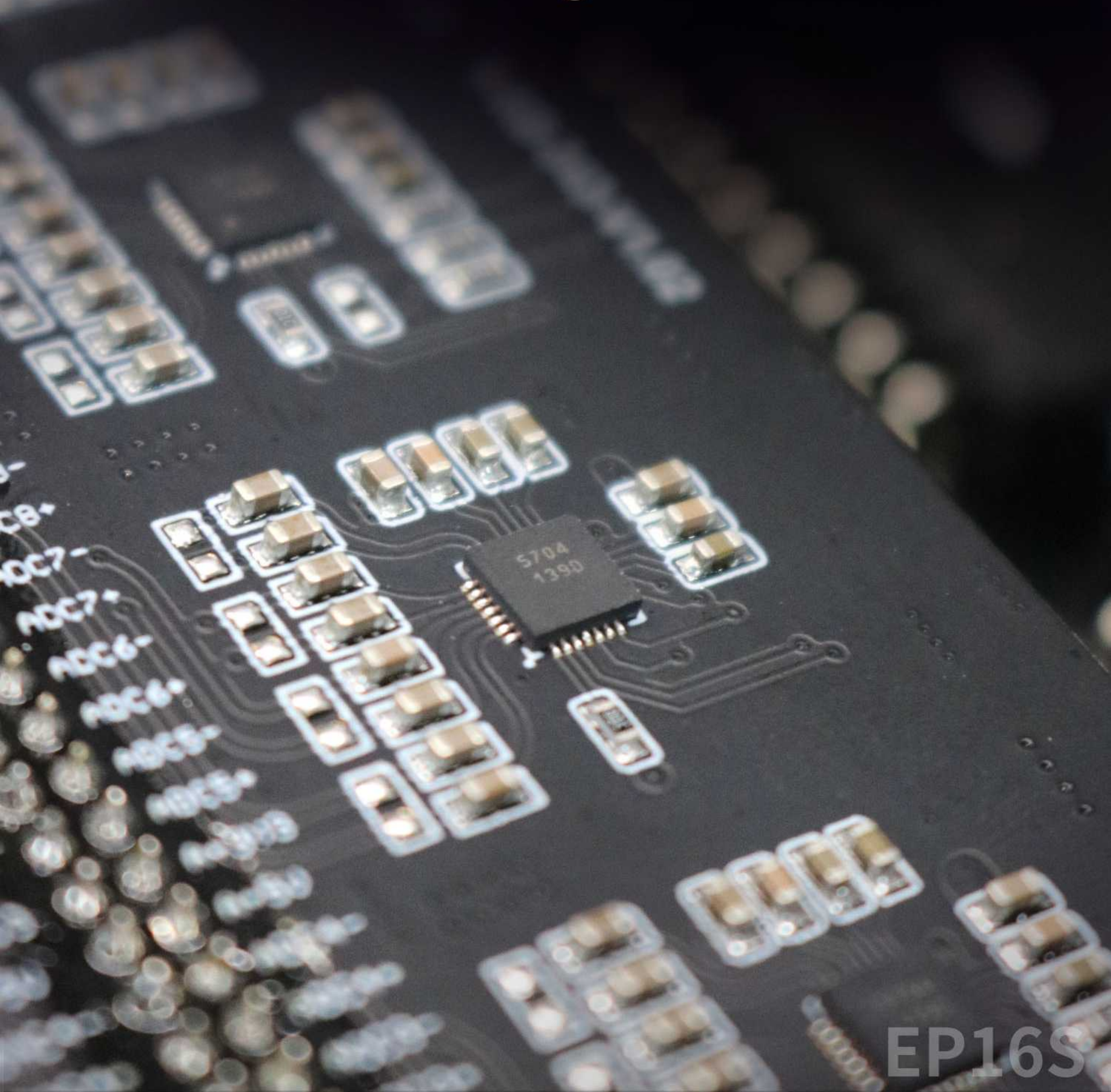
Soundtrack your journey

Tailored for the pursuit of
ultimate sound effects

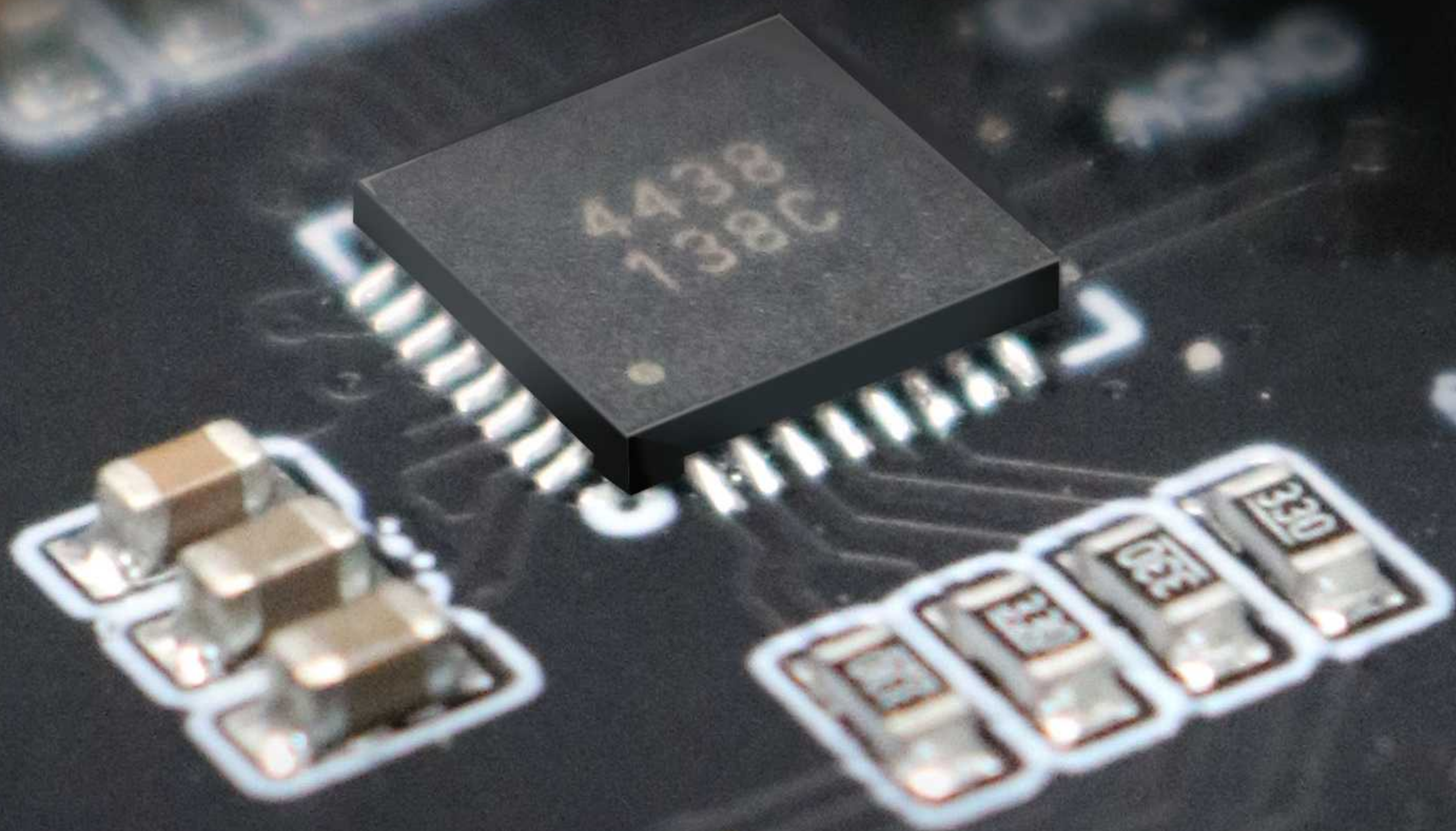
ADI automotive grade SigmaDSP Dual digital audio signal processor chip



ADC chip
Analog-to-digital
converter integrated circuit



AKM audiophile-grade audio dedicated chip



EP16S

Japanese Rubycon audio dedicated filter capacitor



EP16S

A close-up photograph of an audio circuit board. The board is populated with several red, rectangular WIMA capacitors. In the foreground, there are gold-plated connectors, likely for an audio signal path. The background shows other components like electrolytic capacitors and integrated circuits on the PCB. The lighting is dramatic, highlighting the textures of the components.

**German WIMA
audiophile-grade
capacitor**

EP16S

High-Performance audio operational amplifier



EP16S

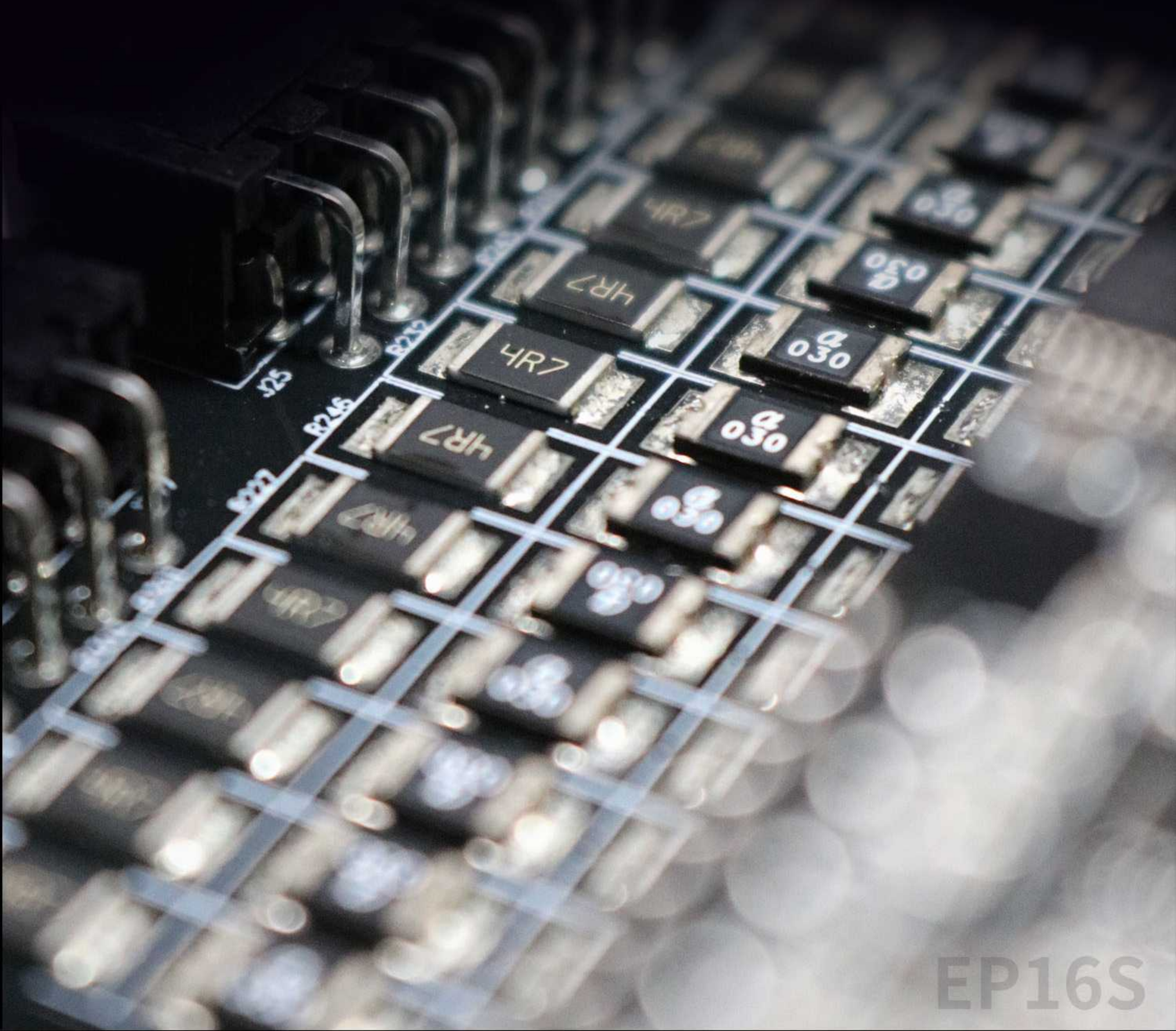
Ultra high signal-to-noise ratio optimization.



BEFORE ADOPTING 4-LAYER PCB BOARD,
IT WAS FILLED WITH NOISE AND ECHOES.

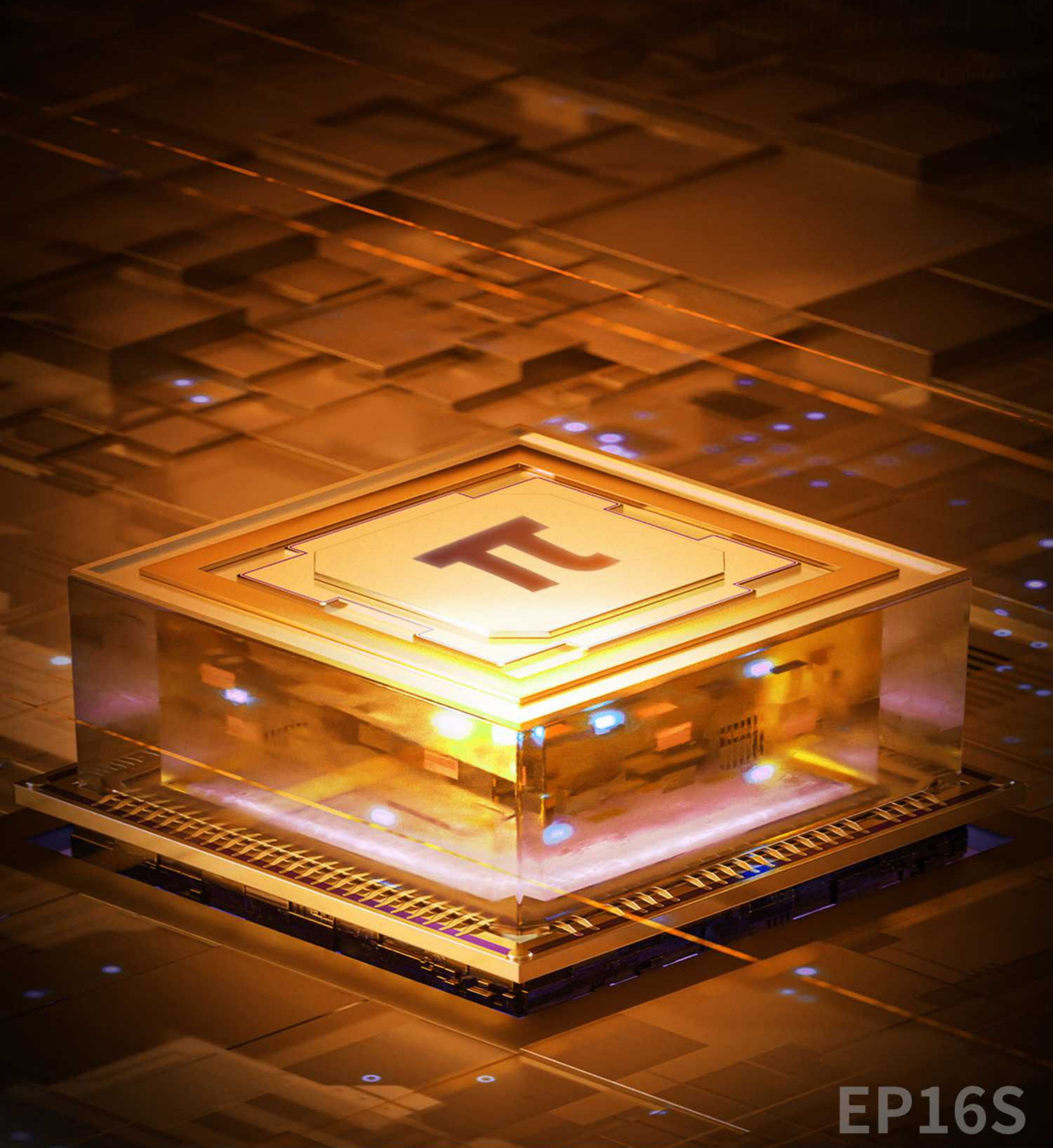
AFTER ADOPTING 4-LAYER PCB BOARD,
CLEAR SOUND CAN BE CAPTURED.

Intelligent high-level input impedance detection technology



EP16S

Built in Bluetooth 5.1 module



EP16S

**Support optional external
HD Bluetooth adapter & optional
multi function wired remote control**



Support Optical / Coaxial digital audio input



EP16S

**High quality gold-plated
RCA terminals**

EP16S

Main/auxiliary sound source intelligent mixing function



Simulate spatial panoramic sound
Audio source sound effects linkage
Dynamic loudness compensation



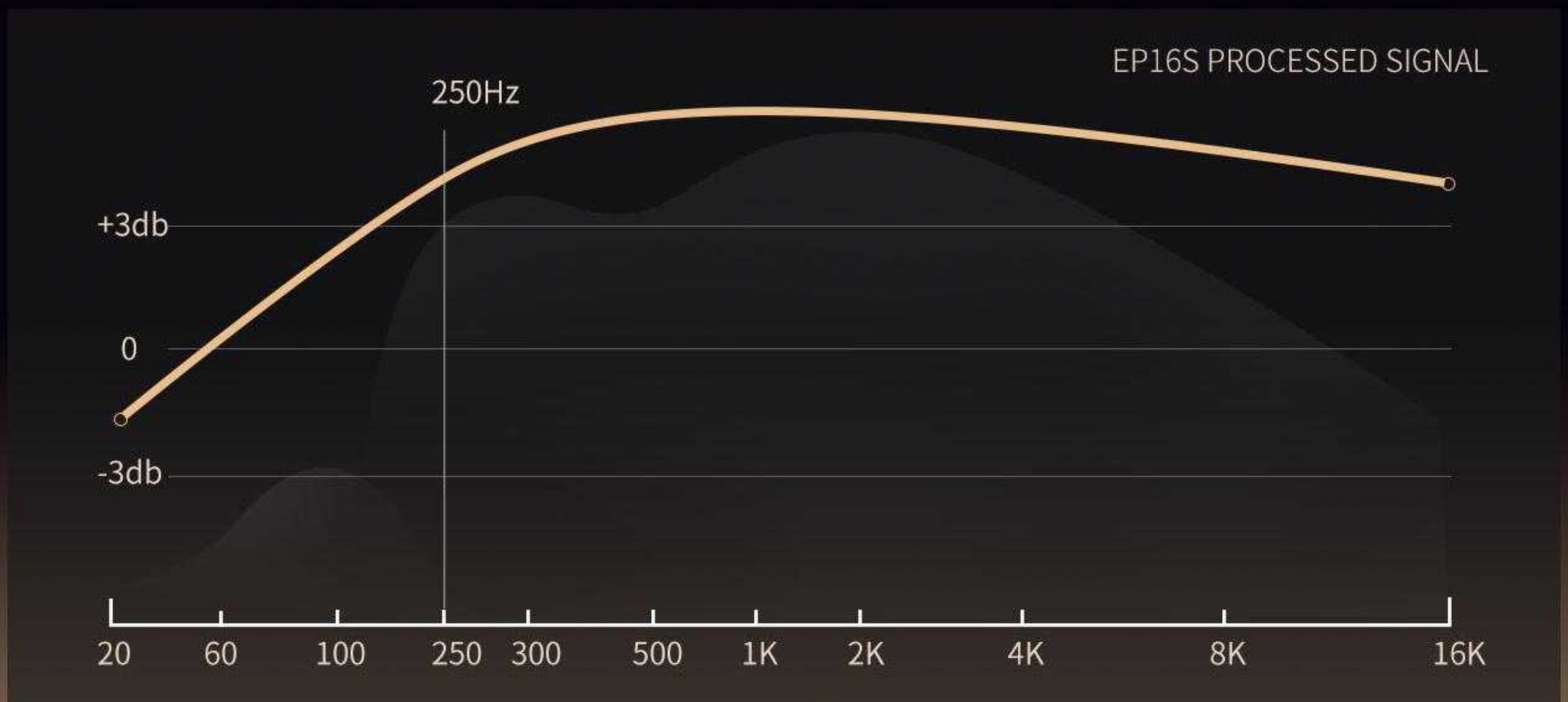
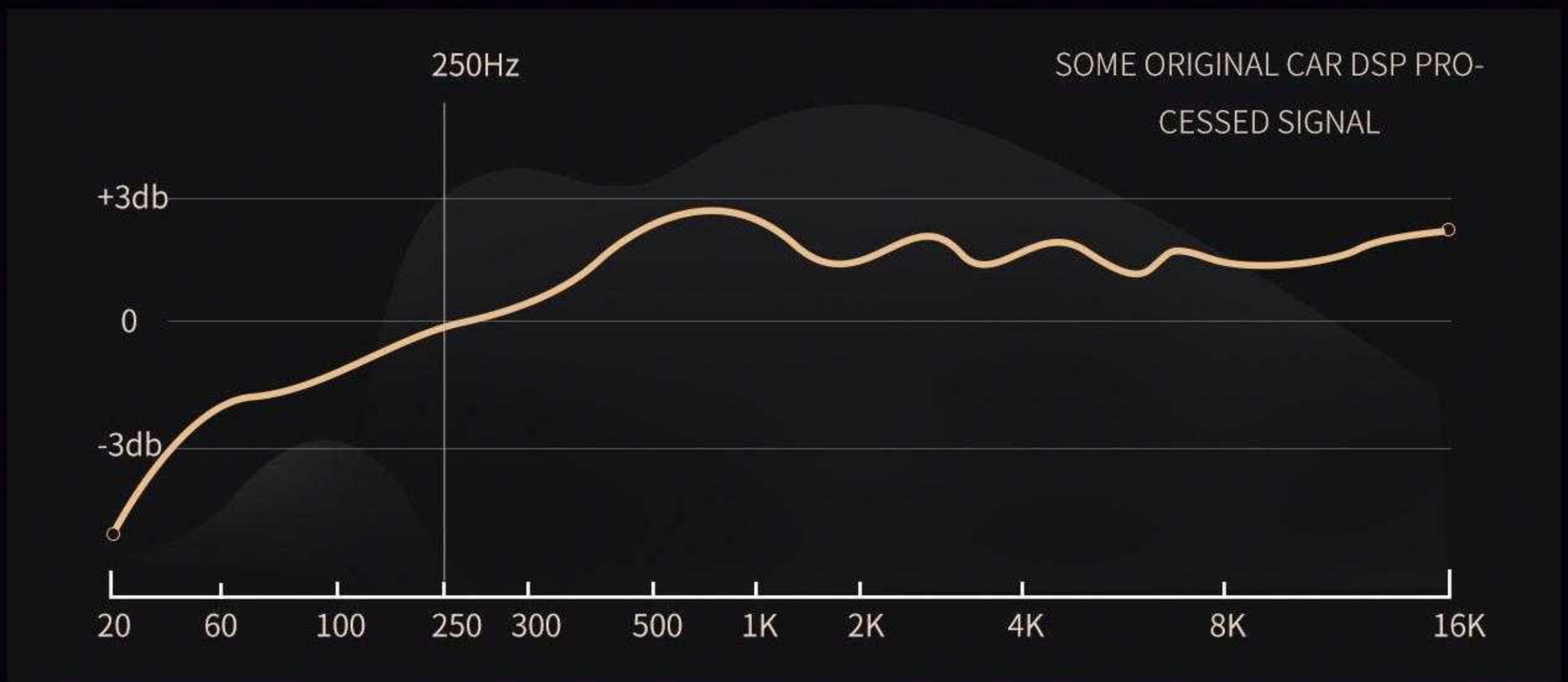
EP16S

**Multiple high-level
signal inputs,
supporting arbitrary mixing
between multiple channels.**



EP16S

Software with Built-in RTA Real-Time Analyzer



EP16S

Support iOS / Android phone app tuning

Support encrypting DSP settings to prevent unauthorized modifications (external HD Bluetooth adapter required)



EP16S

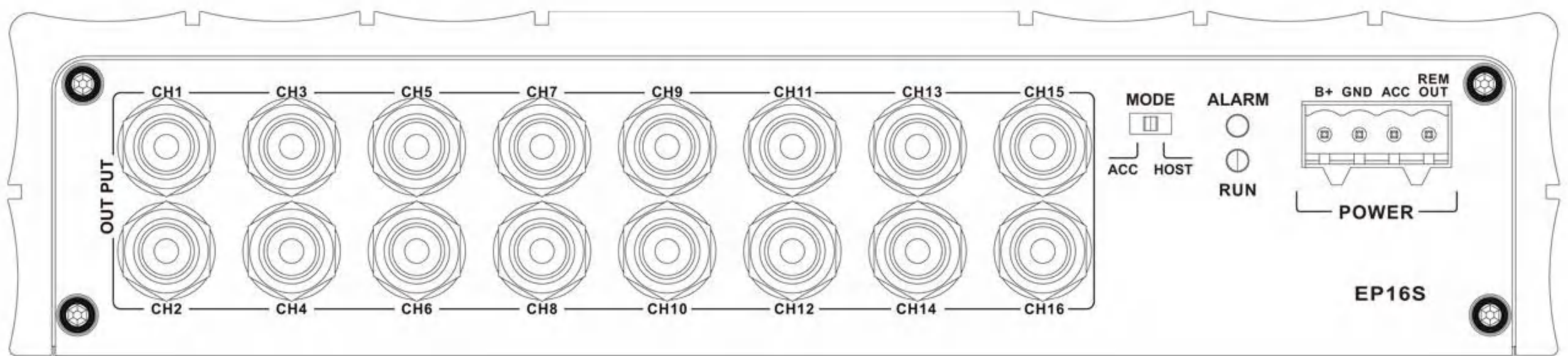
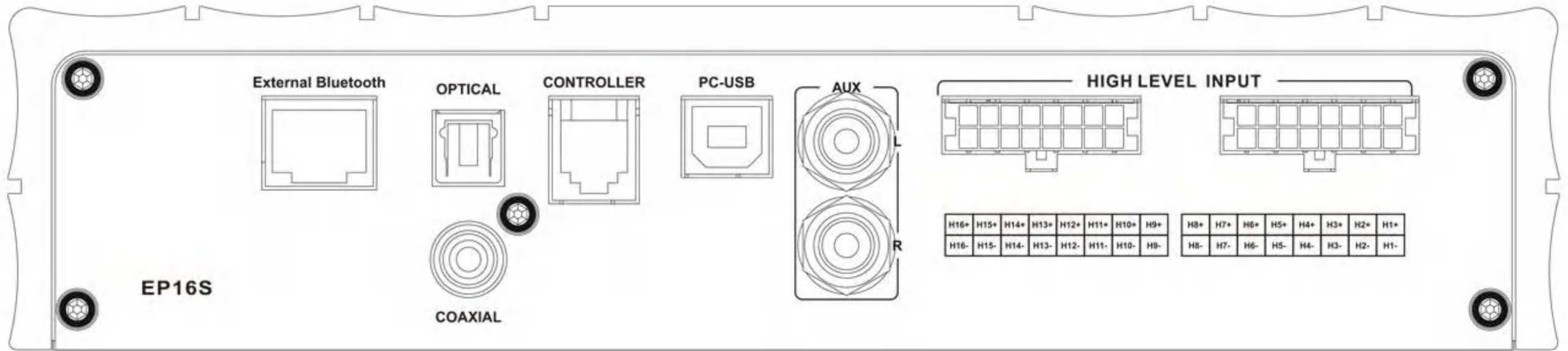
Soundmagus 20th Anniversary Design



EP16S

EP16S product specifications

Input & Output interface



Specifications sheet

EP16S Specification

Power supply	
Operating Voltage range	7.5 - 16V DC
Auto Turn On	ACC / DC OFFSET (High level input CH1 only)
Standby current	<0.5mA
Idling current	0.44A
REM OUT output voltage	12V DC (380mA)
Input	
Analog input	16 Channel High Level / 10Vrms or 18Vrms 2 Channel Low Level (AUX) / 2.0Vrms
Digital audio input	1 Optical ; 1 Coaxial
Input Impedane	20K Ohm (Low Level) / 4.7 Ohm(High-Level)
Bluetooth	Built-in Bluetooth 5.1, Supports SBC / AAC protocols Optional external bluetooth adaptor, supports AAC, APTX-L, APTX-LL, APT-HD, MP3, SBC and other protocols; supports OTG audio transmission (BTA-02 only)
Output	
Output Channel	16 Channel Low Level
Low level output channel	Output Level 5Vrms (14.4V , 1KHz , 1%THD)
Frequency Response ragnge	20Hz ~ 40KHz (-3dB)
THD (1KHz, 1Vrms output)	0.01%
S/N Ratio(1KHz A-wt.TH=1%)	>95dB
Channel Separation @1KHz	>105dB
Output signal Crossover	Independent HPF, LPF filter for each channel Filter type: Link-Ril, Bessel, Butter-W Filter frequency: 20Hz~40KHz (1Hz steps) Filter slope: 6dB/Oct~48dB/Oct
Output Signal Equalizer	31 independent equalizers per channel. Type: Parametric / Graphic Equalizer Frequency: 20Hz~40KHz (1Hz steps) Q Value: 0.404~28.852 Gain: -12.0dB~+12.0dB (0.1dB steps)
Output Phase	Normal phase or reverse phase (0°~360°)
Output Delay	0.000~20.000ms;0~692cm;0~272.8 inch
Output volume	Each channel independent adjustment: -60dB/Oct~0dB/Oct (0.1dB steps) Total volume adjustment: -60dB/Oct~6dB/Oct (0.1dB steps)
Shutdown delay	0~255S
Control	
DSP Tuning	PC software (Installation free) / Smart phone app tuning (External Bluetooth adapter required)
Remote control	Wired controller / Smart phone app control (External Bluetooth adapter required)
Dimension	
Net weight	1.1kg
Dimension	137mm x 223mm x 50 mm(L x W x H)

※ SOUNDMAGUS reserves the right to modify specifications or change product design without notice.