

AI-NC100

AI NOISE CANCELLATION
AUDIO PROCESSOR



Product Specification

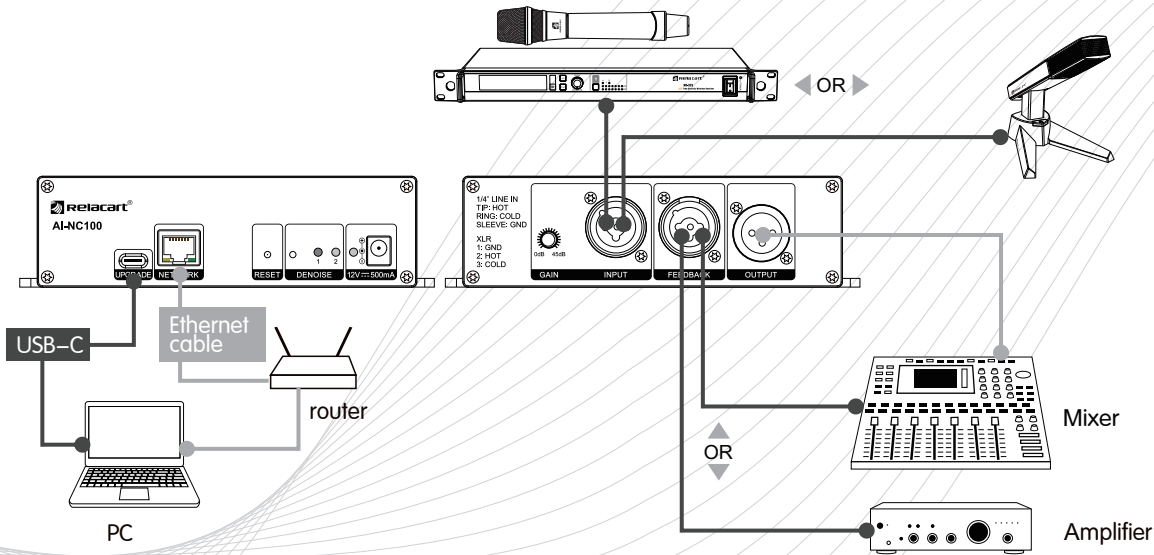


Frequency response:	20Hz~20KHz
Input gain:	0-45dB (panel adjustable)
Input impedance:	3K Ω
Maximum input level:	17dBu (GAIN at 0dB)
Power supply:	48V phantom power supply (software controlled switch)
Output impedance:	500 Ω
Maximum output level:	17dBu
Power supply mode:	DC 12V/500mA DC power supply
Dimensions (mm):	166 (L) x 83 (W) x 44.6 (H)

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System Connection Diagram



Key Features

360° AI Noise Reduction

- Removes background noise from both uplink and downlink communications while preserving voice clarity, enabling natural conversations in any setting.

Intelligent De-reverberation

- Utilizes Deep Neural Networks (DNN) to eliminate echoes in reflective spaces (e.g., concert halls), enhancing Direct-to-Reverberant Ratio (DRR) for crystal-clear voice reproduction.

Full-Duplex Acoustic Echo Cancellation

- Eliminates echoes even during simultaneous speech, ideal for low Signal-to-Noise Ratio (SNR) environments without relying on mechanical design.

Dynamic Feedback Suppression

- Integrated AI processor instantly identifies and suppresses narrow band feedback between speakers and microphones, ensuring stable, distortion-free audio.