SKYWORKS®

Increase Intelligibility with Skyworks AI Noise Suppression

Skyworks AI Noise Suppression is an algorithmic software solution for removing unwanted background noise from speech signals. This technology increases speech intelligibility, preserves quality, and reduces listener fatigue when using handsets, headsets, conference systems, automotive telematics, wireless microphones, and audio-visual systems.

Featured Product

Skyworks AI Noise Suppression

Features

• Patented embedded algorithmic software

• Increases speech intelligibility in audio and audio/video systems

• Can be used in a variety of DSP cores and audio frameworks

• Does not require connection to cloud servers, desktop PCs, or mobile phones

Skyworks AI Noise Suppression is trained on a large variety of speech and noise signals, and can be implemented on a variety of DSP cores and audio frameworks, including the industry standards.

The advanced AI is based on a feed-forward neural network that is scalable from enterprise to edge, requiring less than 250 kilobytes of memory and adds no latency when integrated into an existing audio processing path.

Embedded implementations of Skyworks AI Noise Suppression have achieved subjective and objective test scores that compete with desktop CPU/GPU solutions while requiring less than 10% CPU load on a HiFi4 core running at 600 MHz. The solution can also run at 48 kHz, enabling advanced noise reduction on full bandwidth signals in audio/video production and playback.

This solution does not require connection to large cloud servers or tethering to desktop PCs or mobile phones. Skyworks AI Noise Suppression does not interfere with the original speech signal as confirmed by subjective testing based on ITU-T P.808.