

ICLEAR- Cabin Listening with Echo & Acoustic Reduction for Speech

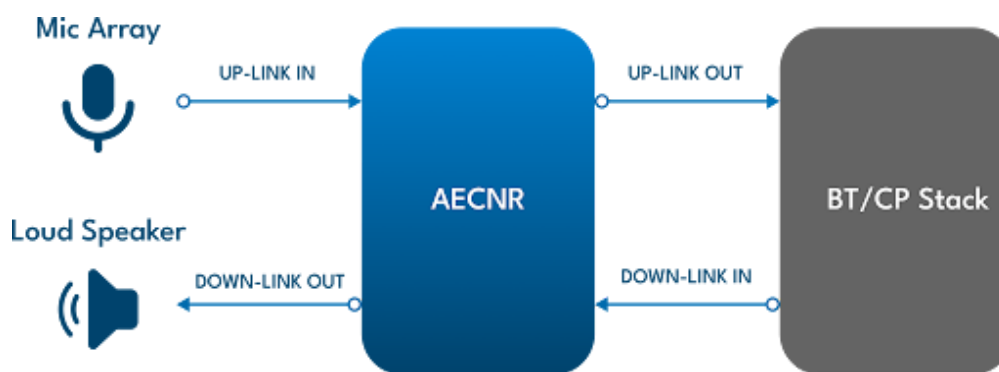


Description

- ICLEAR AECNR IP delivers real-time echo cancellation and noise reduction for clear voice communication.
- Advanced acoustic processing preserves voice quality while suppressing unwanted interference.

Applications

- Hands-free Communication
- In-vehicle Voice Assistants
- Digital Cockpits
- Connected Vehicle Platforms



Features

- Adaptive Acoustic Echo cancellation
- Intelligent Noise Suppression
- Residual Echo control
- Voice Activity detection (VAD)
- Speech Enhancement Processing
- Multi-Microphone beamforming support with DoA
- Efficient double talk detection
- Acoustic environment Adaptation
- Supports FaceTime(24kHz) communications
- Sample Rate Support: 8kHz, 16kHz, 32kHz and 48kHz
- Extensively configurable and tunable pipeline

Market Readiness

- Compliant to ITU-T specifications
- Optimized for CPU performance
- Minimal memory footprints
- Ported to multiple platforms
- Software SDK/API availability
- Field Tested in various road conditions, transient noise scenarios and volume levels