



Meeami Technologies
(Acoustic Echo Canceller)
Data Sheet

Version 1.0

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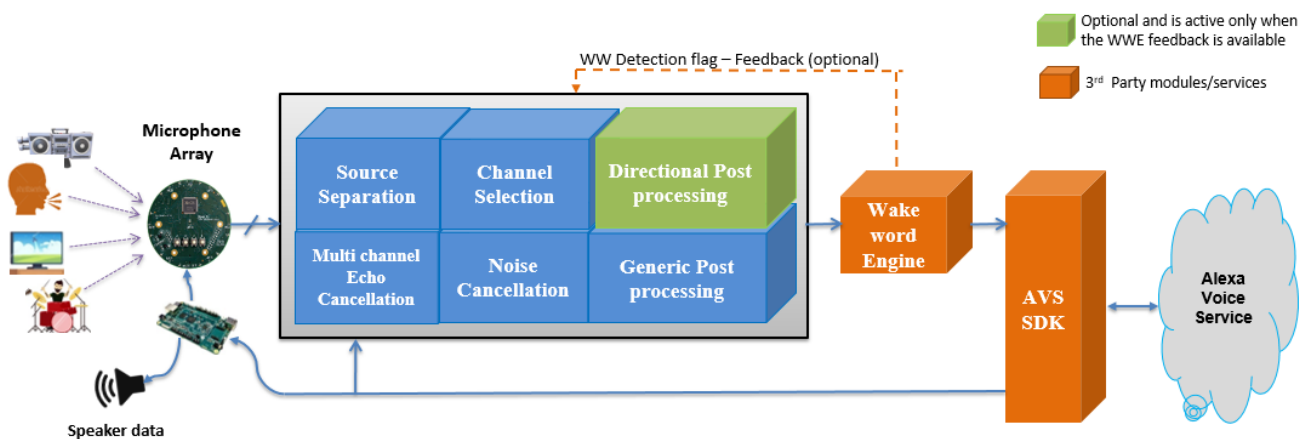
1 Description

Meeami’s ClearVoice enables Human Machine voice interaction from distances up to 5 meters under noisy conditions. It consists of a source separator or a Beam former depending on the use case, an echo canceller, noise suppression and gain controller. Few devices have been Amazon (AVS) certified with Meeami’s Clearvoice.

1.1.1 SOURCE SEPARATION BASED CLEARVOICE

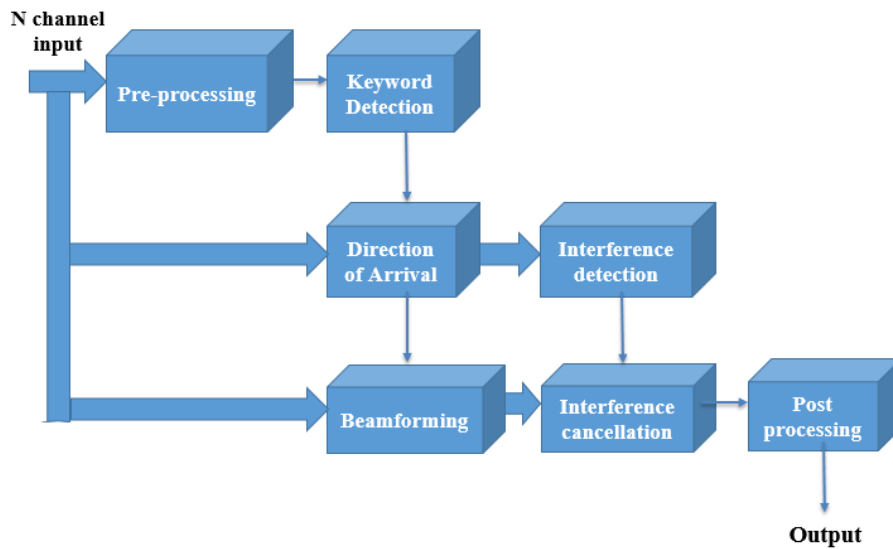
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- Adaptive Source separation for 2 mics, 3 mics and 4 mics
- Supports built-in echo cancellation and noise cancellation
- Dynamic configuration support for Human-Human and Human-Machine communication
- Supports Optional spatial filter incase feedback of wakeword detection flag is available
- Meets Normal Speaker’s AVS 2.1 certification requirement



1.1.2 Beamformer based ClearVoice -- MULTI MIC ADAPTIVE BEAMFORMER

- World first beamformer in Cepstral/Kepstral Domain
- Optimum filter is estimated every frame
- No convergence concept.
- We get optimum output each frame
- Feedforward and avoids limit cycle issues
- Multiple inventions in each blocks.
- AVS certified with 4 mic linear array beamformer & also uses Meeami EC for VoIP calls and ASR functionality.



2 System Requirement

Resource Measured on Rediyo with 1400MHz, Android

Module	Memory	CPU/Processing Time	Avg CPU in MHz
MVDR	1.4MB	200ms	280 MHz
SS	2.1MB	330ms	462 MHz

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