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The high definition acoustic echo canceller supports 8 kHz, 16 kHz, 32 kHz, 44.1, and 48 kHz sampling rates.

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# HD Acoustic Echo Cancellation - Full Band, Multi-Mic

HD AEC IS CAPABLE OF ELIMINATING THE ACOUSTIC ECHO IN DIFFICULT CONDITIONS SUCH AS UNBALANCED SPEECH LEVELS, CLOSE SPEAKER TO MIC PROXIMITY, BACKGROUND NOISE, INDOOR/OUTDOOR ENVIRONMENTS, REFLECTIVE ROOM SURFACE, DOUBLE TALK, AND ECHO PATH CHANGES.

Designed for Next Gen products: HD AEC is a high definition, Multi-Mic Capable, Fullband, Full-Duplex Acoustic Echo Canceller which includes a noise reduction feature, as well as the typical anti-howling, nonlinear processing, and double-talk detection.

FEATURES

- Superior Double-Talk Performance
- Supports 8 kHz, 16 kHz, 32 kHz, 44.1 kHz, and 48 kHz sampling rates
- Able to achieve greater than 40 dB of ERLE without nonlinear processor
- Supports true cancellation at tail lengths up to 500 msec
- Can be customized for tail lengths greater than 500 msec
- Full-duplex performance
- Fast convergence and reconvergence
- No divergence due to doubletalk
- Integrated noise-reduction
- Integrated automatic gain control
- Parameters are user configurable
- No divergence due to double-talk
- Integrated microphone equalization
- Functions are C-callable
- Multiple channel operation

Specifications

Functional Description

Description

Availability

AVAILABILITY

ADT HD AEC is available off the shelf on the following Platforms: Other configurations are available upon request.

Platform	High performance	High efficiency	Ultra-high efficiency
ARMv8-A	Cortex-A72 / A73	Cortex-A53	Cortex-A32 / A35
ARMv7-A	Cortex-A15 / A17	Cortex-A8 / A9	
ARMv7-M	Cortex-M7	Cortex-M3 / M4 / M33	Cortex-M23
Retired/Legacy - ARM9E & ARM11			

FUNCTION

HDAEC\_ AECG4\_  
AEC\_ADT\_create(...)Create and initializes an echo canceller channel  
AEC\_ADT\_appl1(...)Executes cancellation function  
AEC\_ADT\_backgroundHandler(...)Handles background calculations  
AEC\_ADT\_delete(...)Deletes an echo canceller channel

For complete information, please contact sales. Tel: 1-610-825-0182 x120



or email us.

