



HD AEC STM32F746xx ARM® 32-bit Cortex®-M7

525 Plymouth Road, Suite 316
Plymouth Meeting, PA, 19462

High Definition Acoustic Echo Canceller

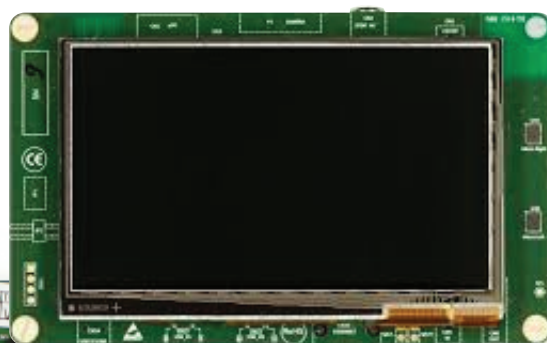
HD AEC product provides superior voice clarity and true full duplex performance under a wide set of challenging acoustic environments. It is capable of eliminating the acoustic echo in difficult conditions such as unbalanced speech levels, close speaker to mic proximity, indoor/outdoor environments, background noise, reflective room surface, double talk, and echo path changes.

Programmable sampling rate, supporting narrowband (8 kHz), wideband (16 kHz), super-wideband (32 kHz), and full-band (44.1, 48 kHz).

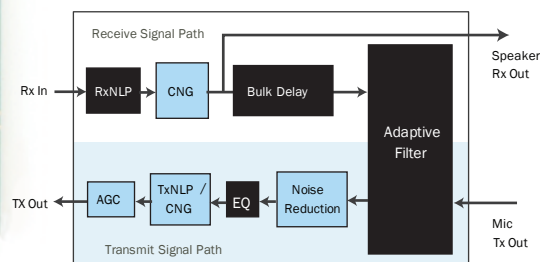
ADT HD AEC DEMONSTRATION SOFTWARE
runs on ST Micro STM32F7 Discovery kit
for STM32F746 MCU

FEATURES:

- Handles echo tails up to 400 msec. and greater
- Automatically adjusts for unknown bulk delay
- Integrated Automatic Gain Control
- Adaptive nonlinear processor
- Integrated Next Gen Noise reduction
- Integrated Transmit Equalization
- Anti Howling



STM32 F7
Discovery
High-performance



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ADT HD AEC - CORTEX- M7
CPU UTILIZATION & MEMORY REQUIREMENTS

All Memory usage is given in units of kbyte

Function	MIPS		Program Memory	Data Memory	Scratch Memor	Per Channel Data Memory
	Average	Max				
Encode	33.4	36.8	--	--	4960	1960
Decode	6.9	7.5	--	--	1024	1400
Encode/Decode	40.3	44.3	49 kbytes	6100	5984	3360