

ADT AFC

Adaptive Digital Technologies, Inc.

Adaptive Feedback Control

PRODUCT DESCRIPTION

In many acoustic applications, the presence of feedback can cause a resonance to occur. Whether or not the resonance occurs as well as the frequency of the resonance depends upon many variables: is a function of gain/loss, acoustic reflections, room size, and system delay.

Adaptive Digital's Adaptive Feedback Control algorithm analyzes an input signal, determines whether or not there is a resonance, and eliminates the resonance while minimizing the effect on the desired signal.

FEATURES

- Functions are C-callable
- Multiple channel operation
- Maximum suppression is user configurable
- Minimal effect on desired signal
- Adapts quickly to changing conditions

AVAILABILITY

ADT AFC is available on the TMS320[™] DSP Family

C55x & C64x[™]DSP, & C64x+[™]DSP Generations

SPECIFICATIONS

C55x

All Memory usage is given in units of byte.

Adaptive Feedback Control	Sampling Rate	MIPS (Peak)	Program Memory	Data Memory	Per-Channel Data Memory
AFC_ADT_run	8000	67	2339	5542	3504

C64x

All Memory usage is given in units of byte.

Adaptive Feedback Control	Sampling Rate	MIPS (Peak)	Program Memory	Data Memory	Per-Channel Data Memory
AFC_ADT_run	8000	22	5216	4854	1676
AFC_ADT_run	16000	61	5216	5190	2544
AFC_ADT_run	44100	333	5216	6254	5244
AFC_ADT_run	48000	364	5216	6414	5676

C64x+

All Memory usage is given in units of byte.

Adaptive Feedback Control	Sampling Rate	MIPS (Peak)	Program Memory	Data Memory	Per-Channel Data Memory
AFC_ADT_run	8000	32	5216	4854	1676
AFC_ADT_run	16000	64	5216	5190	2544
AFC_ADT_run	44100	339	5216	6254	5244
AFC_ADT_run	48000	397	5216	6414	5676

FUNCTIONS

API function call summary

AFC_ADT_init(. . .)

AFC_ADT_initObj(. . .)

AFC_ADT_run(. . .)



Adaptive Digital is a member of the Texas Instruments Developer Network, and ARM Connected Community.

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