Adaptive Digital Technologies

# DTMF Analyzer

## PRODUCT DESCRIPTION

Adaptive Digital's DTMF tone analysis software is designed to analyze DTMF tones and report the following statistics:

- Twist: The difference in signal level between the high band frequency and the low band frequency
- Duration: The duration of the tone
- Level: The level of both the low band and high band frequencies.
- SNR: The signal to noise ratio
- Frequency: The frequencies of the low band and high band frequencies

The DTMF tone analysis software works in conjunction with Adaptive Digital's DTMF detector which, by itself, does not perform this more complete analysis of the DTMF signal.

## AVAILABILITY

ADT EVRC-B is available on the following Platforms: Other configurations are available upon request.

| Product | Platform | Memory Model | Endian | Code Gen Tool Version |
|---------|----------|--------------|--------|-----------------------|
| ADT_DTMFanalysis _win32-lib | Windows 32 .lib | N/A | N/A | VS2008 |
| ADT_DTMFanalysis _win32-dll | Windows 32 DLL | N/A | N/A | VS2008 |
| ADT_toneanalysis _win32-lib | Windows 32 .lib | N/A | N/A | VS2008 |
| ADT_toneanalysis _win32-dll | Windows 32 DLL | N/A | N/A | VS2008 |

*Endian, byte order: "Little Endian" means that the low-order byte of the number is stored in memory at the lowest address, and the high-order byte at the highest address. "Big Endian" means that the high-order byte of the number is stored in memory at the lowest address, and the low-order byte at the highest address.

Acronyms

Mm – Memory Model: Memory Model is specific to Texas Instruments processors.

N/A – Not Applicable

N/R – Not Recorded

## SPECIFICATIONS

## Windows DLL

### WIN32
#### CPU UTILIZATION & MEMORY REQUIREMENTS
All Memory usage is given in units of bytes.

| Function | MIPS | Program Memory | Data Memory | Per Channel Data Memory |
|----------|------|----------------|-------------|-------------------------|
| DTMF Analysis | 13 | 3.2K | 1K | 1.5K |
| DTMF Detect | 3 | 3.3K | 3.8K | 0.2K |

## FUNCTIONS

*API function call summary*

```
DTMFANALYSIS_ADT_init ( )          Initialize an analysis instance

DTMFANALYSIS_ADT_updateAnalysis( … )

DTMFANALYSIS_ADT_getAnalysisResults( … )
```

*Deliverables*

The deliverable items are platform dependent. In general, there is one library. (Sometimes multiple variants of the library are included in the deliverables.) There are also header files, some of which are specific to the product and others are common across many of Adaptive Digital's products. Also included in the deliverables is product documentation, which includes a users guide and usually includes release notes and a data sheet. Sample/test code may be included as well.

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

CONTACT INFORMATION

Web:        www.adaptivedigital.com
Email:      information@adaptivedigital.com
Tel:        610.825.0182 ~ Toll Free: 1.800.340.2066
Fax:        610.825.7616
Address:    525 Plymouth Road, Suite 316
            Plymouth Meeting, PA  19462

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