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ARM®

CVSD

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CVSD - Continuously Variable Slope Delta Modulation

ADAPTIVE DIGITAL'S **CVSD** IS A 1 BIT/ SAMPLE VOCODER. IT SUPPORTS 8KHZ TO 16KHZ INPUT SAMPLING AND YIELDS 8KBIT – 16 KBIT/SEC COMPRESSED SPEECH.

THE CVSD CODEC IS DESIGNED FOR USE IN MILITARY COMMUNICATION SYSTEMS.

FEATURES

- Functions are C-callable.

- Multi-channel capable

- CVSD encodes at 1 bit per sample, so that audio sampled at 16kHz is encoded at 16 kbps

Sampling Rate: 8 kHz Coding Rate = 8000 bps
Sampling Rate: 12khz Coding Rate = 12000 bps
Sampling Rate: 16khz Coding Rate = 16000 bps

Specifications   Description   Availability

SPECIFICATIONS

ARM® DEVICES

ARM Cortex-A8 / A9 / A15

CPU UTILIZATION
& MEMORY REQUIREMENTS

MIPs (Peak)						
	8000 hz/8000 bps		12000 hz/12000 bps		16000 hz/ 16000 bps	
	Encode	Decode	Encode	Decode	Encode	Decode
CVSD	1.6	1.6	2.4	2.4	3.2	3.28

All Memory usage is given in bytes.

Data	Program Memory
1664	1872

ARM9E / ARM11 | Cortex-M3 / M4

CPU UTILIZATION & MEMORY REQUIREMENTS

MIPs (Peak)						
	8000 hz/8000 bps		12000 hz/12000 bps		16000 hz/ 16000 bps	
	Encode	Decode	Encode	Decode	Encode	Decode
CVSD	1.6	1.6	2.4	2.4	3.2	3.28

All Memory usage is given in bytes.

Data	Program Memory

1664	1792

APPLICATIONS

Wideband encryption

FUNCTION

```
CVSD_ADT_reset (. . .)     Initializes the CVSD
CVSD_ADT_encode (. . .)    Executes the CVSD encoder
CVSD_ADT_decode (. . .)    Executes the CVSD decoder
```