

MUSICAM Decoder Libraries for ARM Cores

PRODUCT DESCRIPTION

The Pixtree MUSICAM Decoder is an optimized implementation of MPEG-1/MPEG-2 Layer 2. The MUSICAM Decoder supports sampling frequencies from 16 kHz to 48 kHz and all bit-rates specified by the International Standard (ISO/IEC 11172-3 and ISO/IEC 13818-3).

FEATURES

Supported bitstream features	Compliance	MPEG-1 Layer 2
		MPEG-2 Layer 2
	Channel mode	mono, stereo
	Sample rates (kHz)	16, 22.05, 24, 32, 44.1, 48
	Bit rates	up to 288 kbps @ 48kHz stereo
	Frame length	1152 samples
	File formats	MPEG-1/2 Audio file format
Supported Software features	Supported library formats	ADS 1.2, RealView 3.0
		WinCE (Embedded Visual C)
	Data Memory	can be allocated at run-time
	API	C callable interface

DECODER PERFORMANCE & MEMORY REQUIREMENTS

	ARM7TDMI	ARM9E
Complexity	19 MHz	11.5 MHz
Code ROM	30 kB	30 kB
Constant Data ROM	17 kB	17 kB
RAM	25 kB	25 kB

- Complexity Information - Profiled on ARM9E & ARM7TDMI, with zero wait state memory interfaces for typical stereo music content at 44.1 kHz.

DELIVERABLES

- Musicam Decoder Library : Binary
- Spec sheet

