

# S/W MIDI Decoder Libraries for ARM Cores

## PRODUCT DESCRIPTION

MIDI stands for Musical Instrument Digital Interface. For mobile applications, MIDI provides a flexible way for both the system operator and the mobile terminal manufacturer to address various customers' needs. The Pixtree MIDI Decoder is a highly efficient implementation of MIDI standard. It supports MIDI formats and will support MMF formats.

## FEATURES

<b>Supported features</b>	<b>Applications</b>	Digital Audio Players
		Mobile phones
		Entertainment devices
		Set-top boxes
		Car audio systems
		Portable musical instruments
	<b>File format</b>	Midi format 0/1, SMAF converted from Midi
	<b>Number of Channels</b>	Variable (Max : 2)
	<b>Number of Voices</b>	Variable (Max : 128)
	<b>Sample rates (kHz)</b>	16, 22.05, 24, 32, 44.1, 48
<b>Bits per sample</b>	16 Bits	
<b>Supported Software features</b>	<b>Supported library formats</b>	ADS 1.2, RealView 3.0
		WinCE (Embedded Visual C), WIN32
	<b>Data Memory</b>	can be allocated at run-time
	<b>API</b>	C callable interface

## PERFORMANCE & MEMORY REQUIREMENTS

	<b>Decoder</b>	<b>Encoder</b>
<b>Complexity</b>	6.5 MHz	10.5 MHz
<b>Code ROM</b>	10 kB	8kB
<b>Constant Data ROM</b>	0.8 kB	2kB
<b>RAM</b>	5.5 kB	4kB

- Complexity Information - Profiled on an ARM9E in ADS 1.2, with zero wait state memory interfaces.

## DELIVERABLES

- Pixtree MIDI Decoder Library : Binary
- Spec sheet