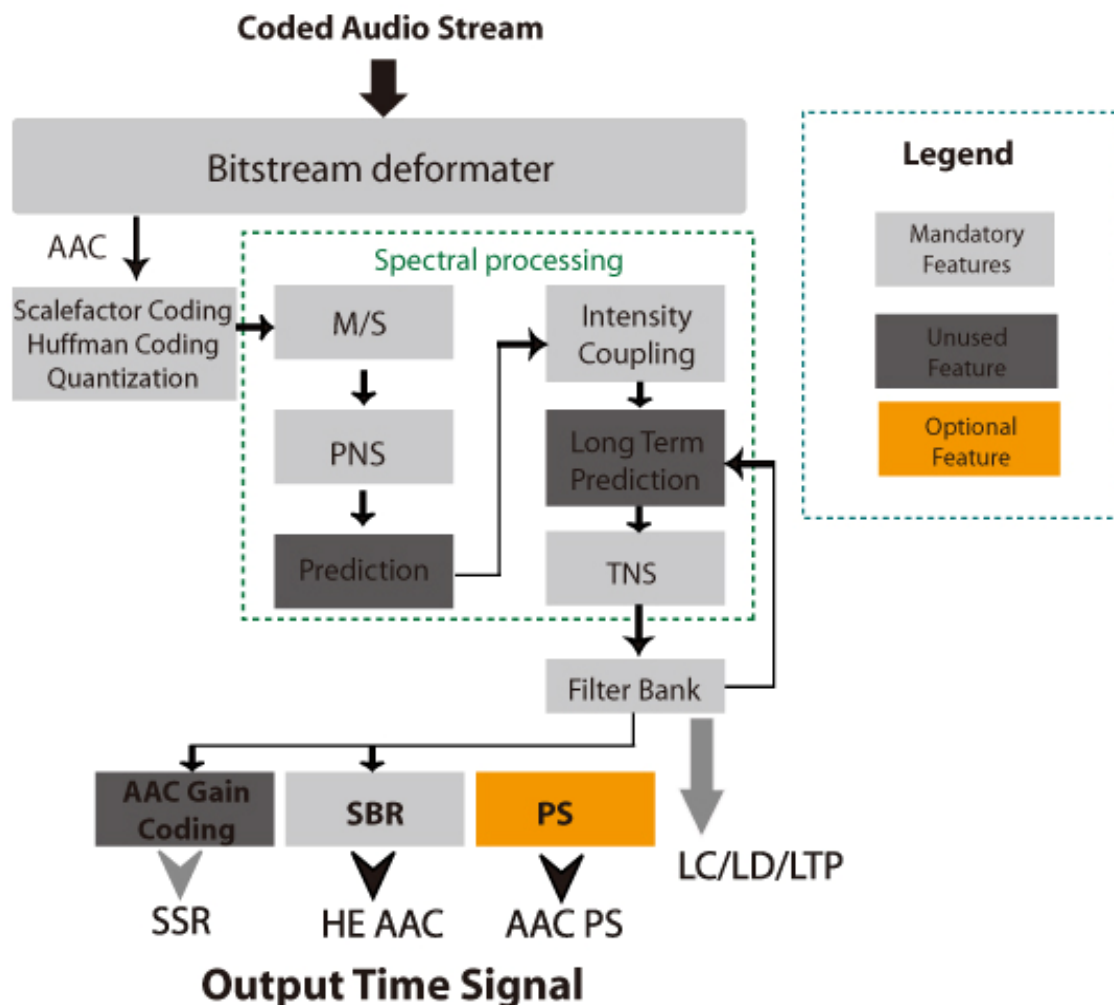


PRODUCT DESCRIPTION



MPEG-4 (ISO/IEC 14496-3) High Efficiency AAC(HE-AAC) is called 'AAC Plus' and selected as an audio standard for DAB+, T-DMB, S-DMB and DVB-H. Spectrum of audio signal has strong association between elements of low and high frequencies. Bandwidth expansion technology, SBR (Spectral Band Replication) tool uses this characteristic has become standard of MPEG-4 audio and generated MPEG-4 by combining with MPEG-4 AAC technology. This provides better quality compare to previous AAC LC in bit rate less than 32 kbps/ch.

The Pixtree HEAAC (v2) Decoder decodes MPEG2/MPEG4 AAC-LC, MPEG4 HEAAC (known as AAC+) and MPEG4 HEAAC v2 (known as enhanced AAC+) bit streams. The AAC decoder supports decoding for raw, ADIF(audio data interchange format) and ADTS(audio data transport stream) encoded data.

BENEFITS

- AAC LC, AAC+ and eAAC+ support
- Highly optimized code
- Easy integration
- Low CPU Usage
- Reentrance and Bit-error resilience

HE AAC (v2) Decoder Libraries for ARM Cores

FEATURES

Supported bitstream features	Compliance	MPEG2 and MPEG4 AAC-LC
		aacPlus (MPEG-4 HE AAC profile, level 2 and 3)
		aacPlus v2 (MPEG-4 HE AAC v2 profile)
		3GPP and 3GPP2
		Terrrestrial DMB and Satellite DMB
		1-Seg
	Channel mode	mono, stereo
	Sample rates (kHz)	8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48
	Bit rates	up to 288 kbps @ 48kHz stereo
	Frame length	1024 samples
Supported Software features	Supported library formats	ADIF, ADTS, RAW
		ADS 1.2, RealView 3.0
	Data Memory	WinCE (Embedded Visual C)
	API	can be allocated at run-time
		C callable interface

DECODER PERFORMANCE & MEMORY REQUIREMENTS

	AAC-LC Dec	HE AAC (LP) Dec	HE AAC v2 Dec
Complexity	12.5 MHz	23.5 MHz	33.5 MHz
Code ROM	38 kB	78 kB	96 kB
Constant Data ROM	37 kB	47 kB	54 kB
RAM	30 kB	107 kB	122 kB

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

DELIVERABLES

- eAAC+ Decoder Library : Binary
- Spec sheet