



AAC-LC Decoder ARM-9E

Component name	AAC-LC Decoder: ARM-9E		
Category (IP/ Reusable)	IP	Component type (HW/SW/product etc)	SW, Audio Codec
HW Platform	ARM-9E	SW Platform /OS	CCS, Linux
Applications / applicable products	Multimedia applications/ products		
Market/ industries applicable	Consumer Electronics		
Product Description	<p>AAC (Advanced Audio Coding) is the standardized lossy compression and encoding scheme for digital audio. It is one of the most popular audio compression standards across wide spectrum of application ranging from portable player, cell phones, music systems, internet, broadcasting and so forth. The MPEG-2 ISO-IEC-13818-7 is the audio standard which provides the syntax and decoding process for compresses AAC audio streams. Mostly AAC Streams have the file extension of .aac. The two main types of AAC streams are ADIF and ADTS. ADIF (Audio Data Interchange Format) streams have a file extension of .adif whereas ADTS (Audio Data Transport Stream) streams have a file extension of .adts.</p>		
Technical specifications	<p>CPU usage:</p> <ul style="list-style-type: none"> • Peak MCPS 15.98 and Average MCPS 15.23 for 44 kHz 320 kbps streams • Peak MCPS 12.12 and Average MCPS 12.12 for 44 kHz 128 kbps streams <p>Memory usage:</p> <ul style="list-style-type: none"> • Program memory 34 KB, Constant tables (ROM) 19 KB • Heap (RAM) 36 KB, Stack 24 KB 		
Features /benefits	<ul style="list-style-type: none"> • MPEG-2 AAC Low complexity (LC) profile • Supports files encoded with compliant ISO/IEC 13818-7 encoders (ADIF and ADTS formats supported) • 2 channel (stereo) • Sampling Frequency from 8 KHz to 96 KHz • Bit-rate up to 576 Kbps • Supports - TNS,MS and IS • Output : 16 bit LPCM • Constant and Variable Bit-rates • Supports CRC protection checking • Simple and C callable API set • Optimized implementation 		
Readiness	Available: ARM-9E optimized version		