



## MP3 Decoder: ANSI C

<b>Component name</b>	MP3 Decoder: ANSI C		
<b>Category (IP/ Reusable)</b>	IP	<b>Component type (HW/SW/product etc)</b>	SW, Audio Codec
<b>HW Platform</b>	Portable	<b>SW Platform /OS</b>	Windows, Linux
<b>Applications / applicable products</b>	Multimedia applications/ products		
<b>Market/ industries applicable</b>	Consumer Electronics		
<b>Product Description</b>	<p>MPEG-1/2 audio layer-3 (MP3) is the most popular format for playback of high quality compressed audio for portable devices such as audio players and mobile phones. The MPEG1 audio standard (ISO/IEC 11172-3) provides the syntax and decoding process for compressed audio bit-streams. MPEG1 Layer 3 encoded audio streams are called .mp3 files, which is one of the most popular audio formats for Internet audio applications. MPEG1 audio works for both mono and stereo signals.</p>		
<b>Features /benefits</b>	<ul style="list-style-type: none"><li>• Standard - ISO/IEC 11172-3 and 13818-3 Layer 3</li><li>• Sampling frequencies – 8 to 48 kHz</li><li>• Bit-rates from 8 kbps to 320 kbps</li><li>• Upto two channels</li><li>• Supported modes<ul style="list-style-type: none"><li>– Mono, stereo, dual channel</li><li>– Joint stereo (intensity stereo and MS stereo)</li></ul></li><li>• Output : 16 bit LPCM</li><li>• Constant and Variable Bit-rates</li><li>• Supports CRC protection checking</li><li>• Support free format streams</li><li>• Simple and C callable API set</li><li>• Fixed point C implementation</li><li>• Reentrant C code</li><li>• Optimized implementation ,can be ported to new platforms</li></ul>		
<b>Readiness</b>	Available: Optimized ANSI C		