

# JAX-1100

## JaxSpeed™ MPEG-4 Encoder

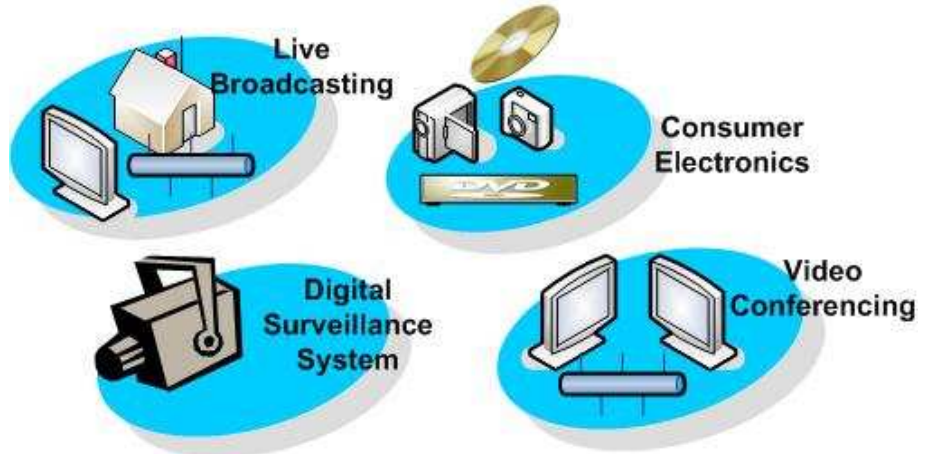
Hardware for Real-Time Video Encoding



- High quality video encoding
- Real-time performance
- Low latency
- D1-resolution @ 30 fps
- Interlaced coding
- Dedicated hardware

Ideal for live encoding applications, JAX-1100 JaxSpeed™ is real-time and low-latency video encoder hardware. It produces compressed video compliant with the specification of ISO/IEC MPEG-4 Part-2 video. MPEG-4 Part-2 is a popular video format used in portable consumer devices such as digital cameras, in advanced cellular phones with camera, and in digital surveillance system.

JaxSpeed™ MPEG-4 Encoder achieves real-time performance for D1 resolution (720 x 480) video at 30 frames per second.



<b>Platform</b>	<ul style="list-style-type: none"><li>• Support Cradle CT-3400 Multiprocessor DSP</li><li>• C reference model available</li></ul>
<b>Encoder Specification</b>	<ul style="list-style-type: none"><li>• MPEG-4 Part-2 Visual Simple Profile (SP) and Advanced Simple Profile (ASP)</li><li>• Support I / P – VOP types</li><li>• Variable GOP size</li><li>• AC / DC prediction</li><li>• Interlaced coding</li><li>• 4 Motion Vector Mode not supported</li><li>• Global motion compensation (GMC) not supported</li><li>• <b>Image Resolution:</b> from 16x16 up to 720x480 (D1)</li><li>• <b>Frame rate:</b> 1 fps up to 120 fps (depending on frame size)</li><li>• <b>Bitrate:</b> 5 kbps up to 10 mbps</li><li>• <b>Rate control:</b> variable (VBR), constant (CBR), and VBR with cap.</li><li>• Memory requirements: Code size &lt; 1 MB, Data Size &lt; 4MB</li></ul>
<b>Input / Output Formats</b>	<ul style="list-style-type: none"><li>• <b>Encoder input:</b> Progressive YUV 4:2:0 (I420 format) or interlaced raw data</li><li>• <b>Encoder output:</b> ISO MPEG-4 video elementary stream (*.m4v)</li></ul>
<b>Performance</b>	<ul style="list-style-type: none"><li>• Real-time video encoding for configuration up to D1 resolution (720x480) at 30 frames per second.</li></ul>



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