

Improv Systems Inc.

100 Cummings Center, Suite 341C • Beverly, MA 01915

Tel: 978-927-0555 x10 • Fax: 978-927-0999

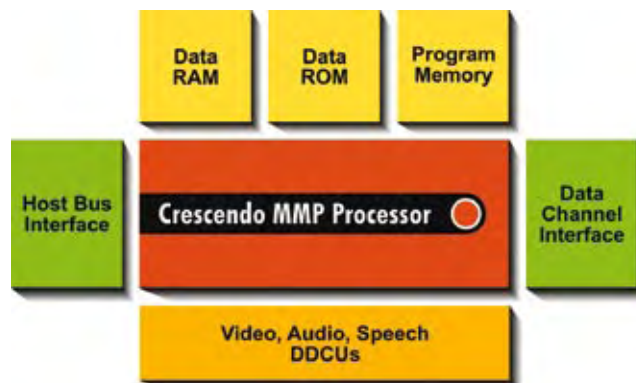
www.improvsys.com**Jazz Media Cores**

The Jazz Media cores are highly optimized solutions specifically tailored to the demanding needs of consumer media markets. Whether you are replacing an existing design or adding media processing to your designs, the Jazz cores can get you to market quickly and efficiently. They support a wide range of video, audio, image, and speech standards and are optimized for low power, low cost applications.

New media devices require support for a variety of different video, audio, image, and speech standards. The Jazz Media solutions are delivered with a complete set of media software modules that can be loaded from memory; this allows a single core to support a broad range of media standards. The Jazz Media cores are fully pre-configured and pre-optimized for specific applications. They include built-in interfaces for standard on-chip buses and memory management to allow direct drop-in into an existing SoC architecture. The Jazz Media cores come with sophisticated power management features and multiple power savings modes.

A complete software development environment called the Jazz Standard tool suite supports all the Jazz cores. The cores also come with a complete implementation environment called the Jazz Generator which creates complete RTL, EDA tool scripts, verification environment, and FPGA mapping. Improv also offers a development platform using Improv's FPGA-based Jazz Rehearsal cards with a full test environment to support verification and system integration.

Improv also offers the Jazz Voice cores for voice-over-IP applications and the Jazz DSP family for general-purpose DSP.

**FEATURES:**

- Complete silicon-ready solution
- Optimized for small die size and low power
- Low clock rates for advanced media standards
- Available in audio, video, and full media configurations
- Video software modules included with license including H.264, MPEG-4, MPEG-2, WMV, and ON2
- Audio software modules included with license including AAC, MP3, MP L1/L2, Dolby Digital, BSAC, and PCM
- Optional image (JPEG) and speech (G.7xx) software modules available as add-on package
- Complete hardware and software solution ready for silicon
- Reduces CPU load by 75-90 percent
- Fully synthesizable and foundry-independent
- Supported by a comprehensive software development tool suite
- Optionally available as configurable cores for additional customization